

FIG. 1

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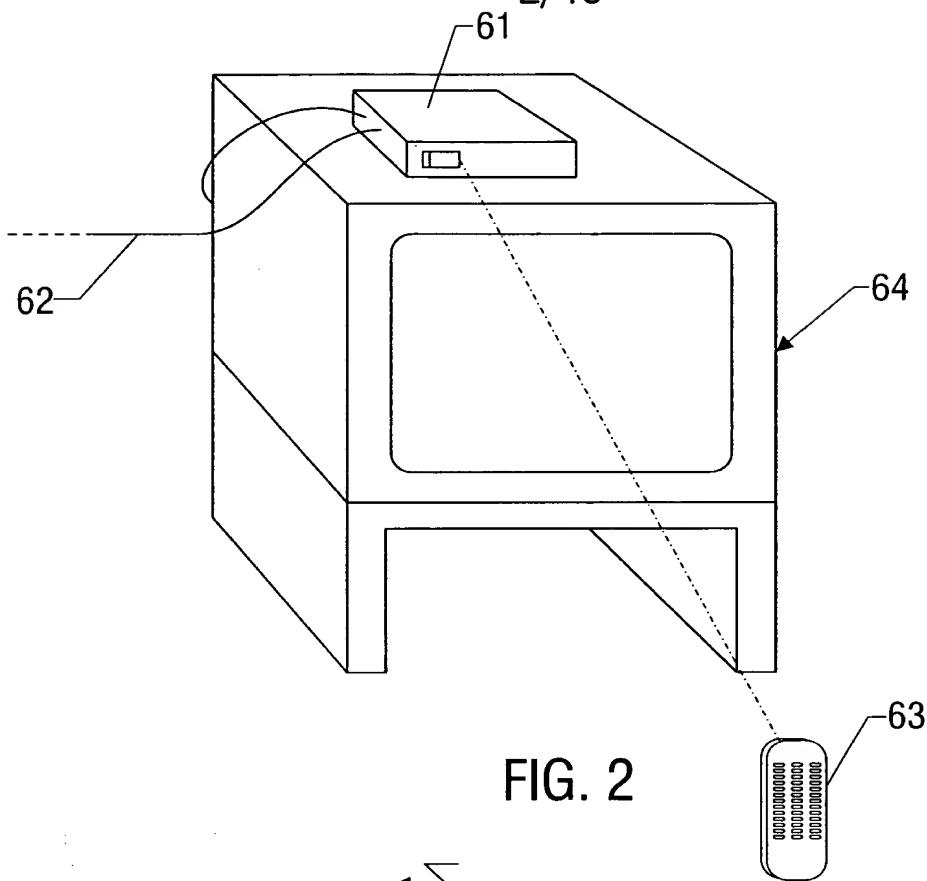


FIG. 2

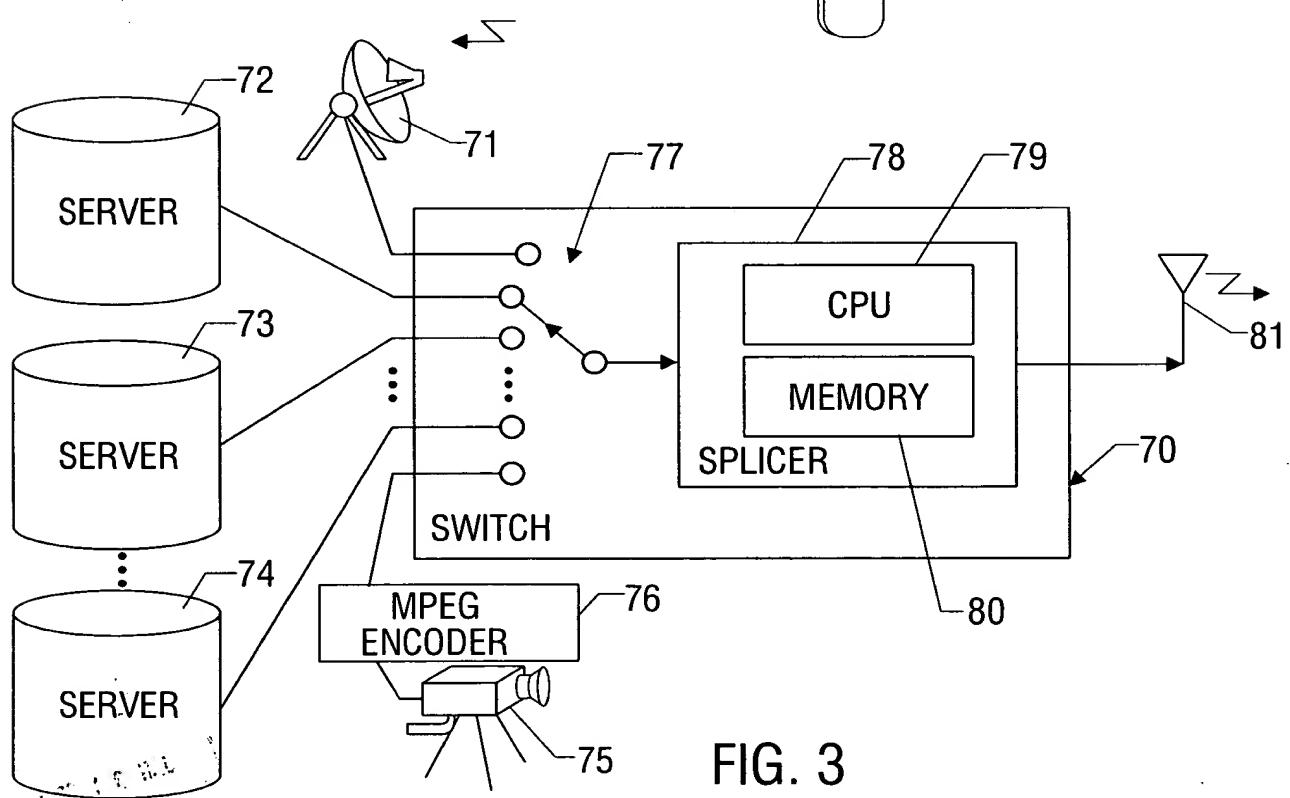


FIG. 3

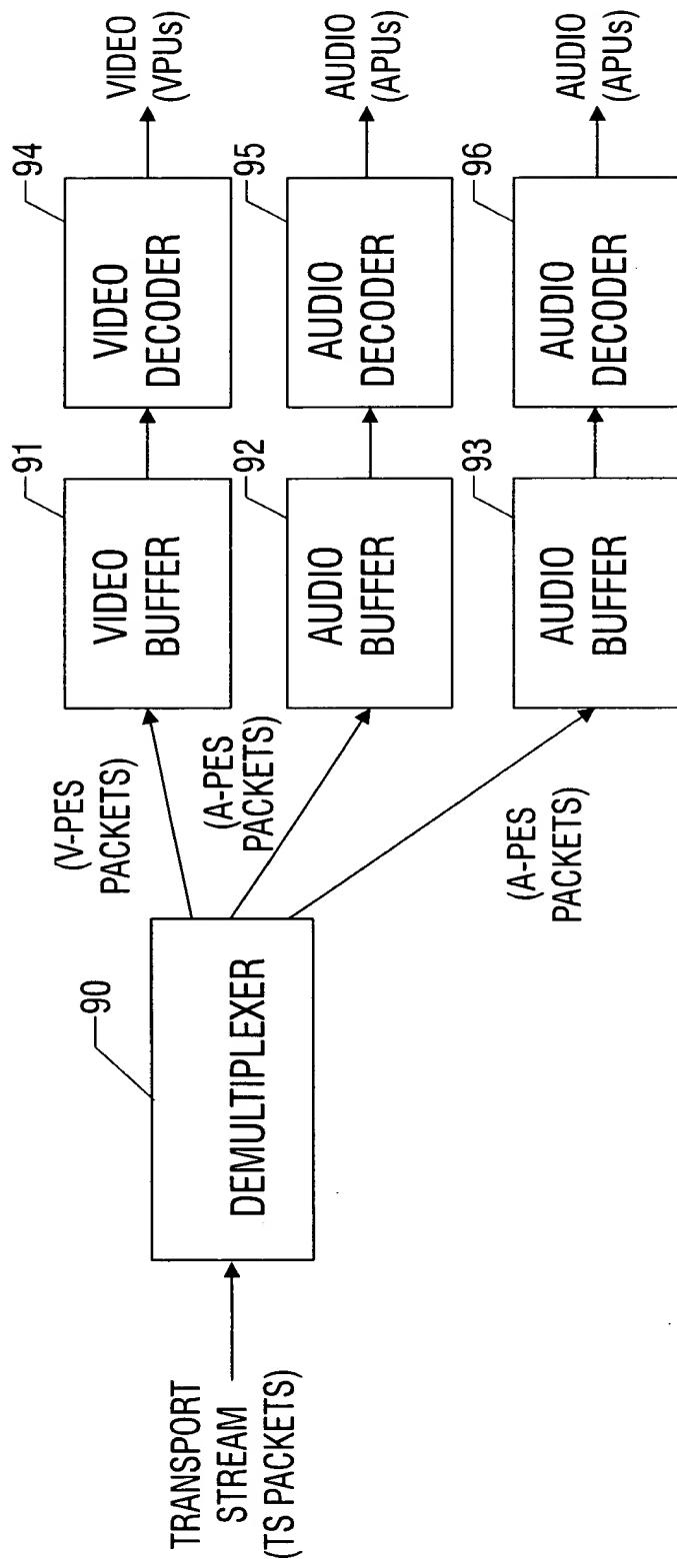


FIG. 4

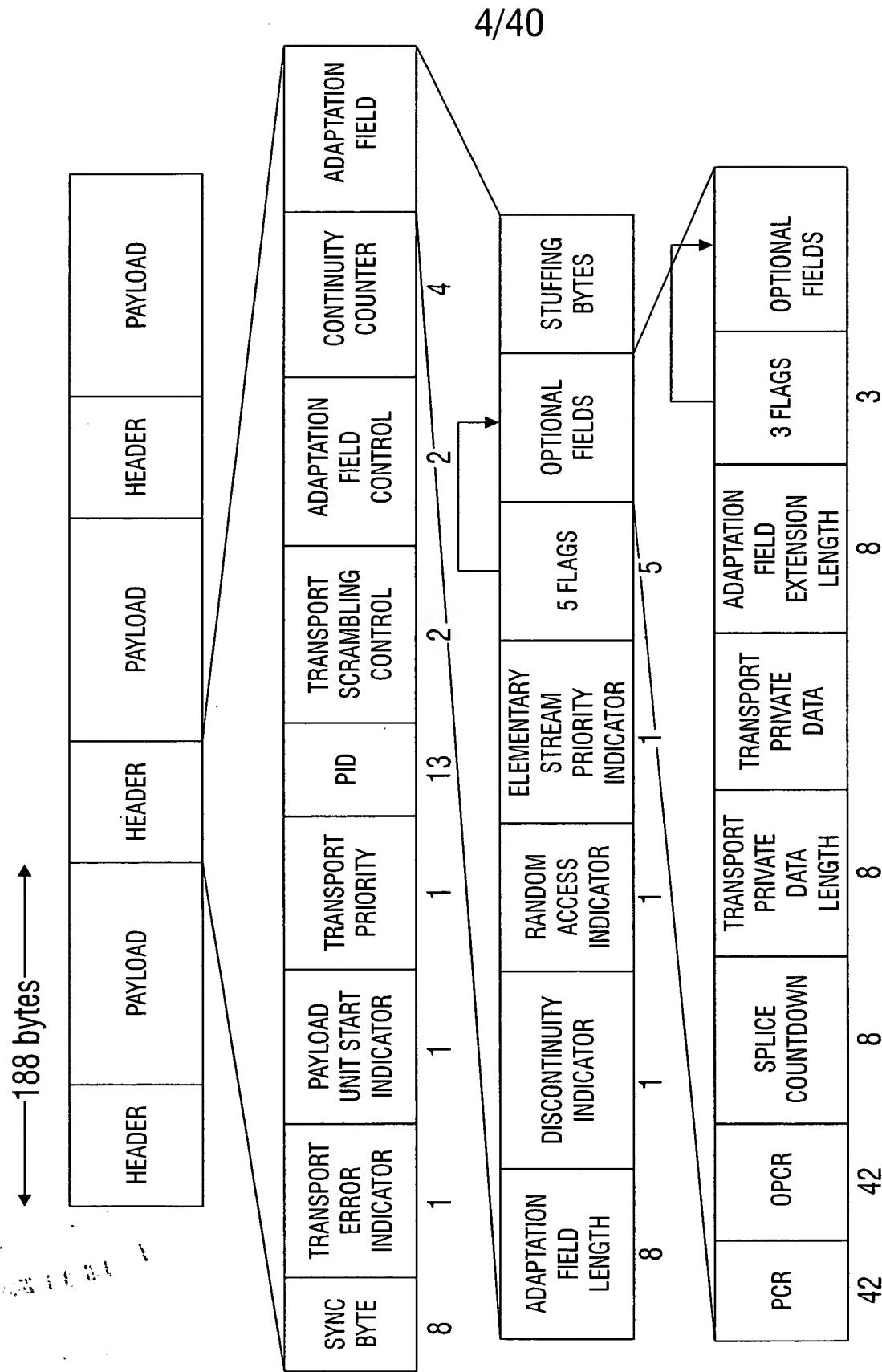


FIG. 5

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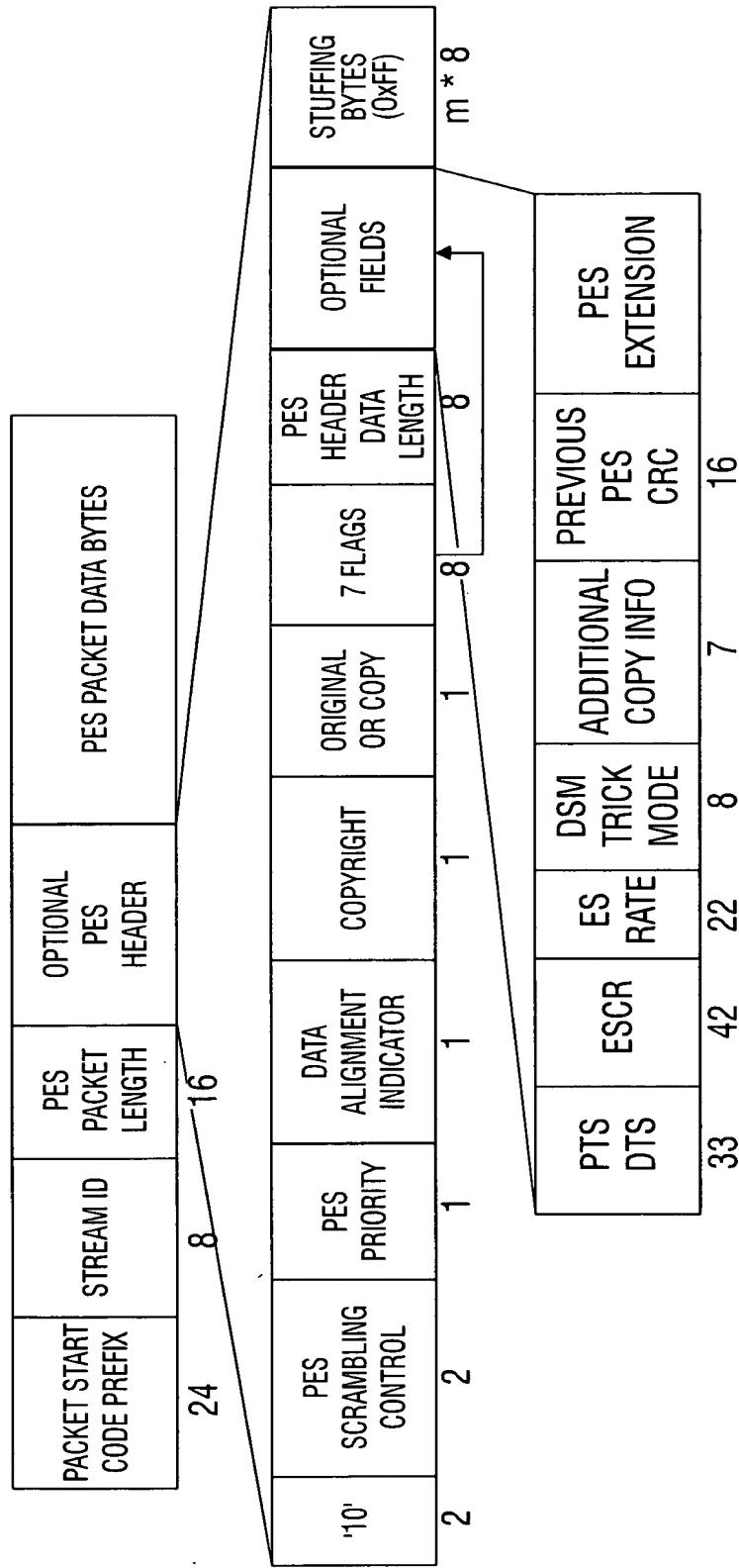


FIG. 6

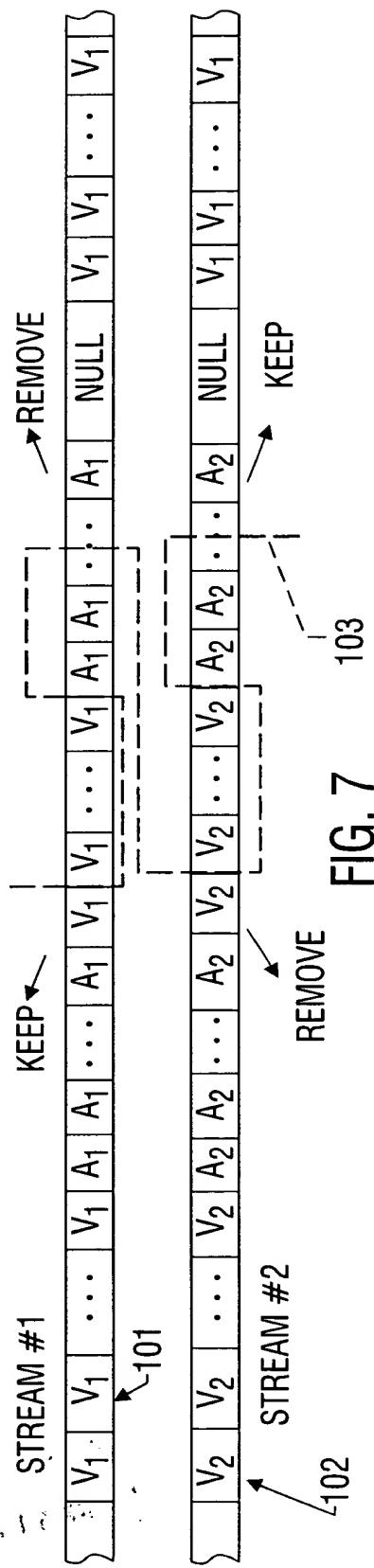
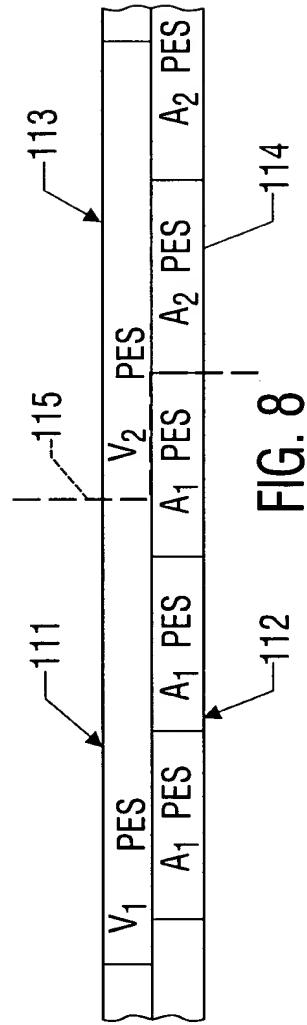
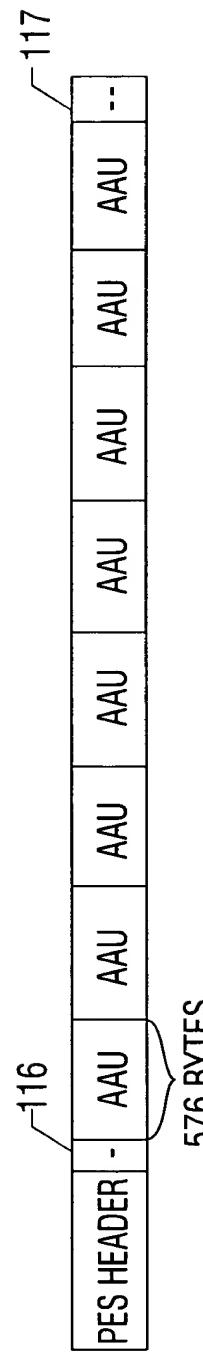


FIG. 7 103



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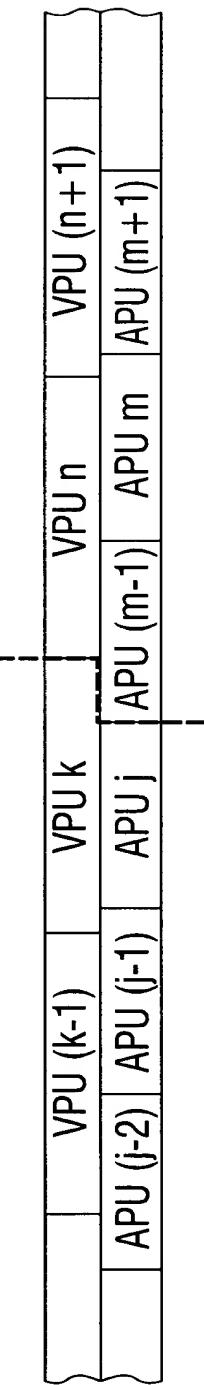
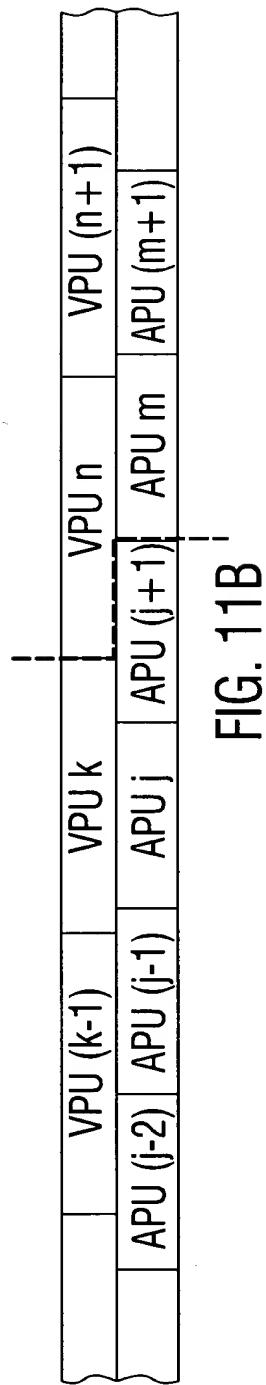
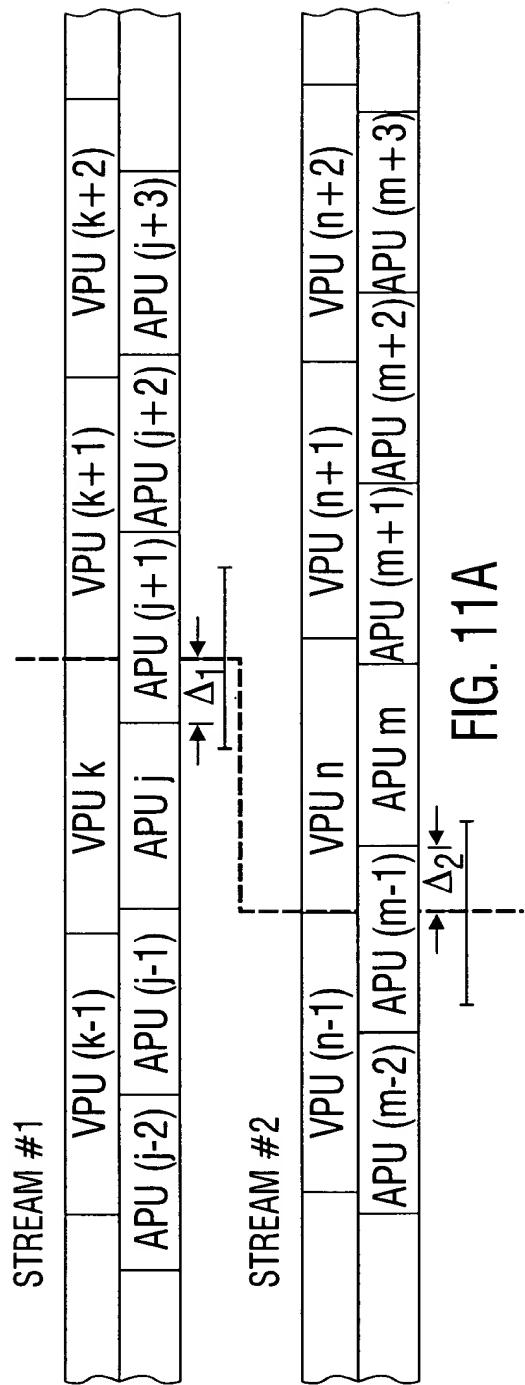


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STREAM #1 BEST ALIGNED <u>APU SHORT</u> INTO THE CUT ($\Delta_1 > 0$)	STREAM #2 BEST ALIGNED <u>APU SHORT</u> INTO THE CUT ($\Delta_2 < 0$)	12 MSEC. < AUDIO GAP < 24 MSEC. ($\Delta_1 - \Delta_2$)	FIGS. 11A, 11B, 11C
	STREAM #2 BEST ALIGNED <u>APU LONG</u> INTO THE CUT ($\Delta_2 > 0$)	0 MSEC. < AUDIO GAP < 12 MSEC. ($\Delta_1 - \Delta_2$)	FIGS. 12A, 12B
STREAM #1 BEST ALIGNED <u>APU LONG</u> INTO THE CUT ($\Delta_1 > 0$)	STREAM #2 BEST ALIGNED <u>APU LONG</u> INTO THE CUT ($\Delta_2 < 0$)	0 MSEC. < AUDIO GAP < 12 MSEC. ($\Delta_1 - \Delta_2$)	FIGS. 13A, 13B
	STREAM #2 BEST ALIGNED <u>APU LONG</u> INTO THE CUT ($\Delta_2 > 0$)	0 MSEC. < AUDIO OVERLAP < 12 MSEC. ($\Delta_2 - \Delta_1$)	FIGS. 14A, 14B
STREAM #1 BEST ALIGNED <u>APU LONG</u> INTO THE CUT ($\Delta_1 < 0$)	STREAM #2 BEST ALIGNED <u>APU SHORT</u> INTO THE CUT ($\Delta_2 < 0$)	0 MSEC. < AUDIO GAP < 12 MSEC. ($\Delta_1 - \Delta_2$)	FIGS. 15A, 15B
	STREAM #2 BEST ALIGNED <u>APU LONG</u> INTO THE CUT ($\Delta_2 > 0$)	0 MSEC. < AUDIO OVERLAP < 12 MSEC. ($\Delta_2 - \Delta_1$)	FIGS. 16A, 16B
STREAM #1 BEST ALIGNED <u>APU LONG</u> INTO THE CUT ($\Delta_1 < 0$)	STREAM #2 BEST ALIGNED <u>APU LONG</u> INTO THE CUT ($\Delta_2 > 0$)	12 MSEC. < AUDIO OVERLAP < 24 MSEC. ($\Delta_2 - \Delta_1$)	FIGS. 17A, 17B, 17C
	STREAM #2 BEST ALIGNED <u>APU LONG</u> INTO THE CUT ($\Delta_2 > 0$)	0 MSEC. < AUDIO OVERLAP < 12 MSEC. ($\Delta_2 - \Delta_1$)	FIGS. 18A, 18B

FIG. 10



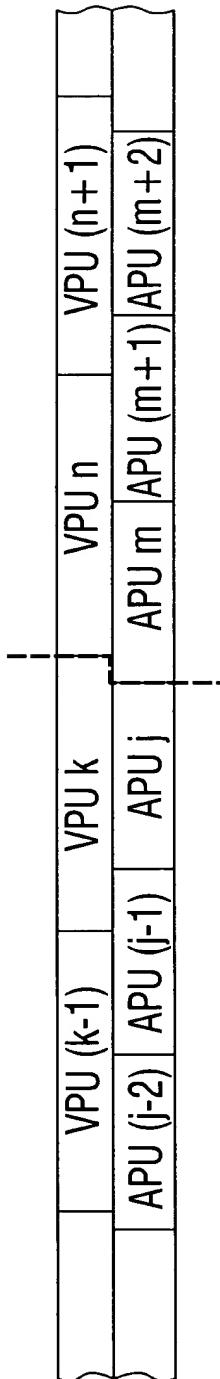
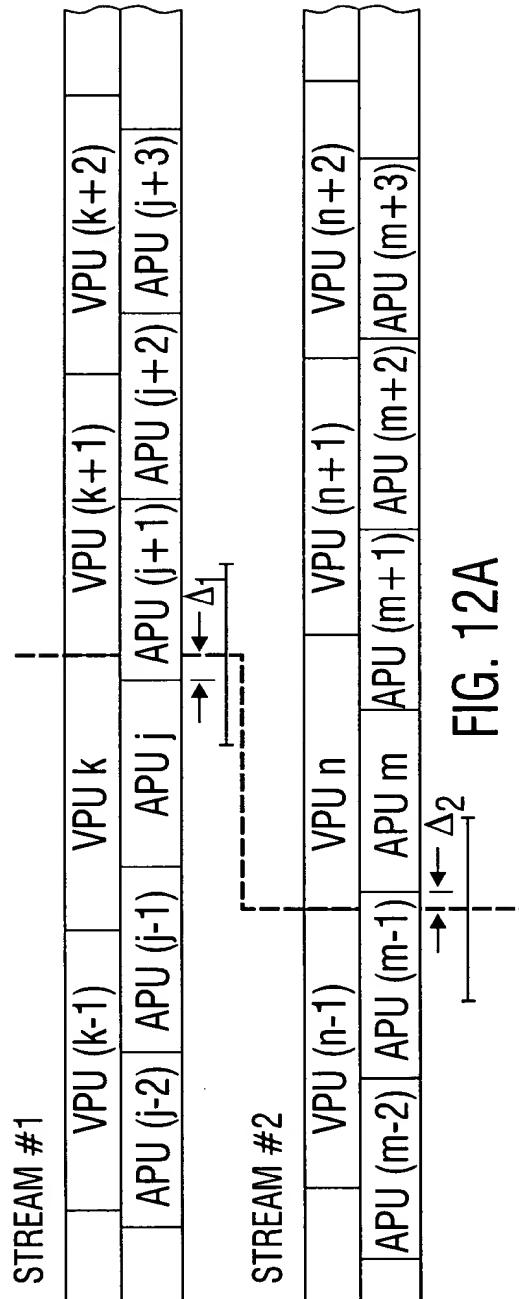


FIG. 12B

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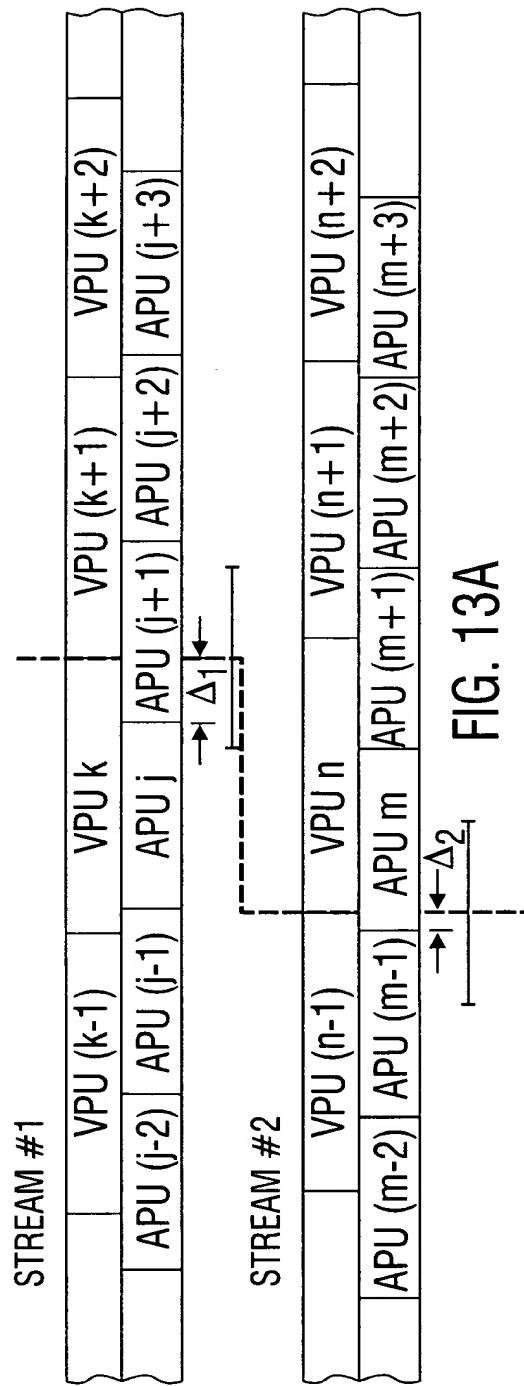


FIG. 13A

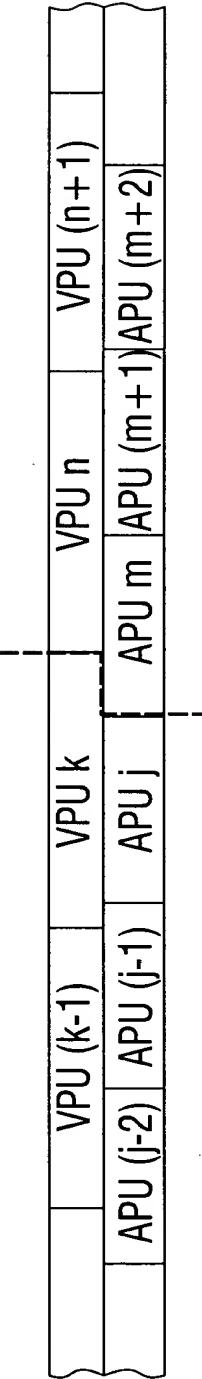


FIG. 13B

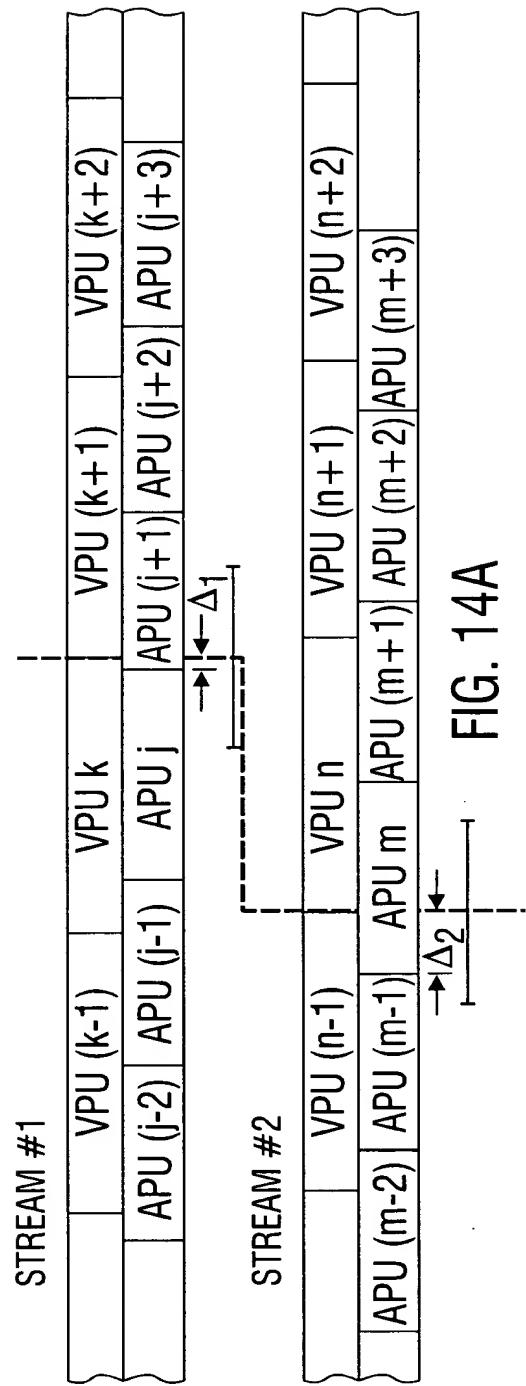


FIG. 14A

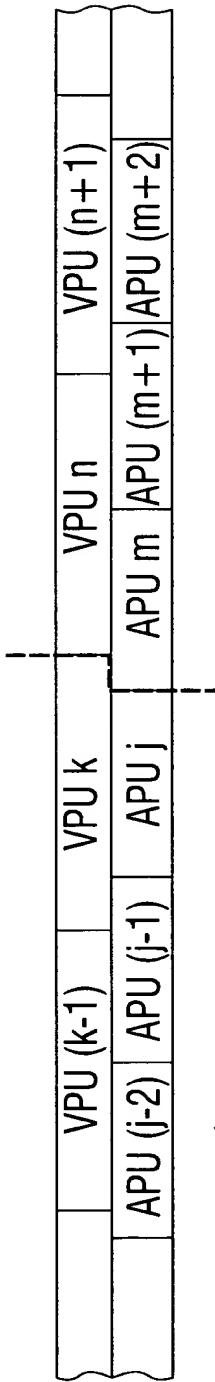


FIG. 14B

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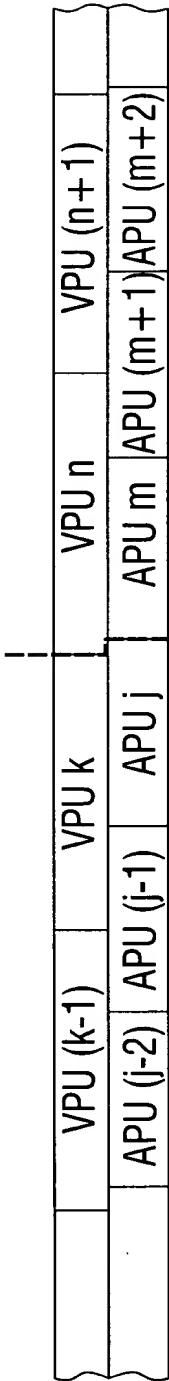
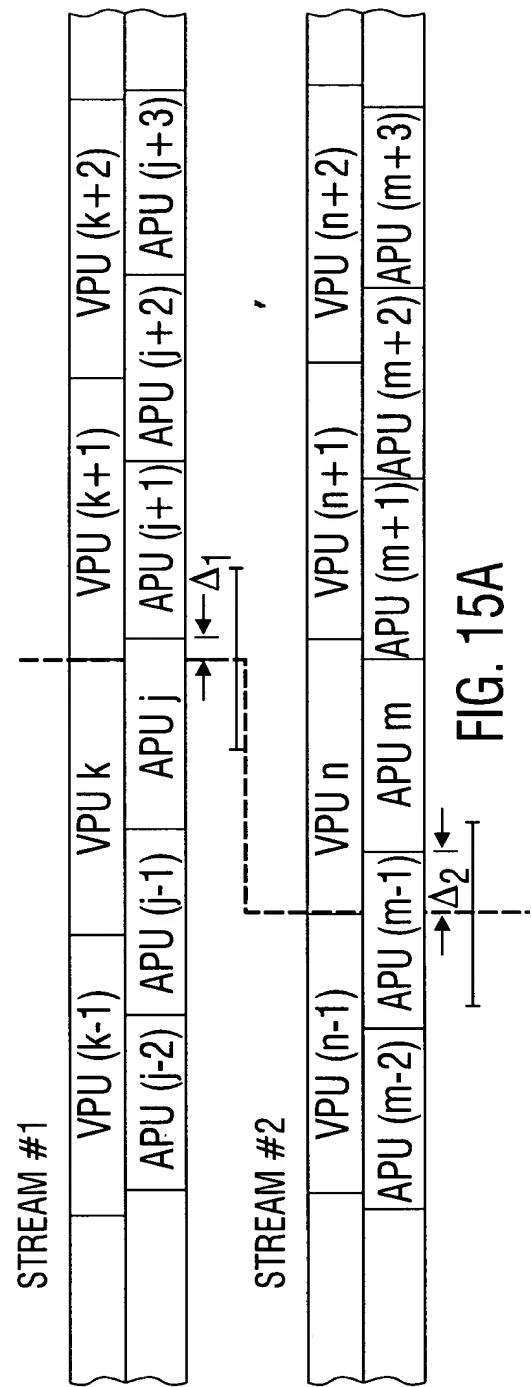
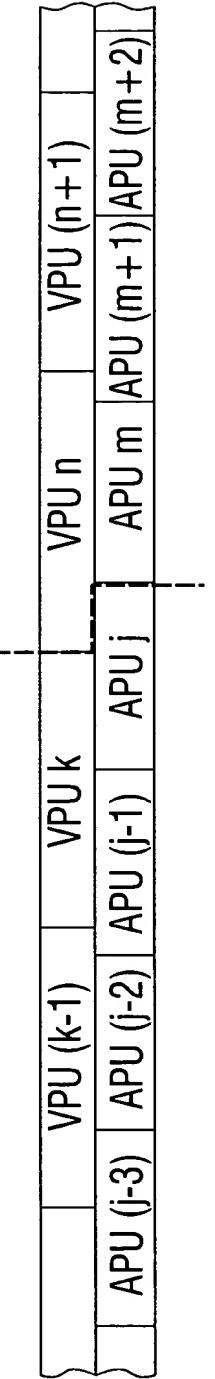
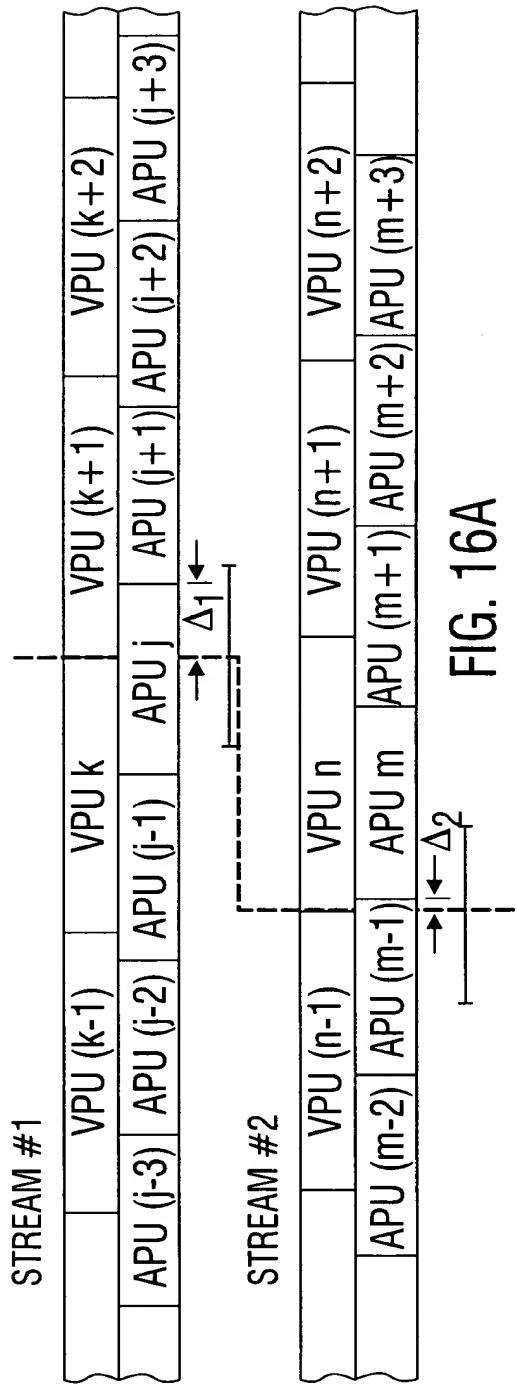
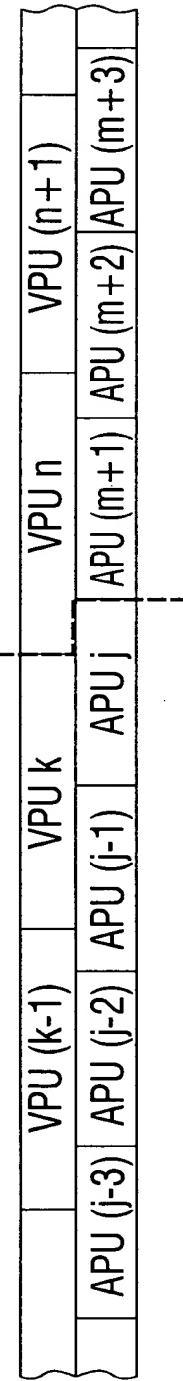
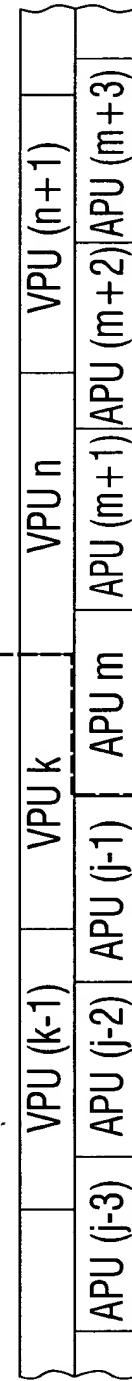
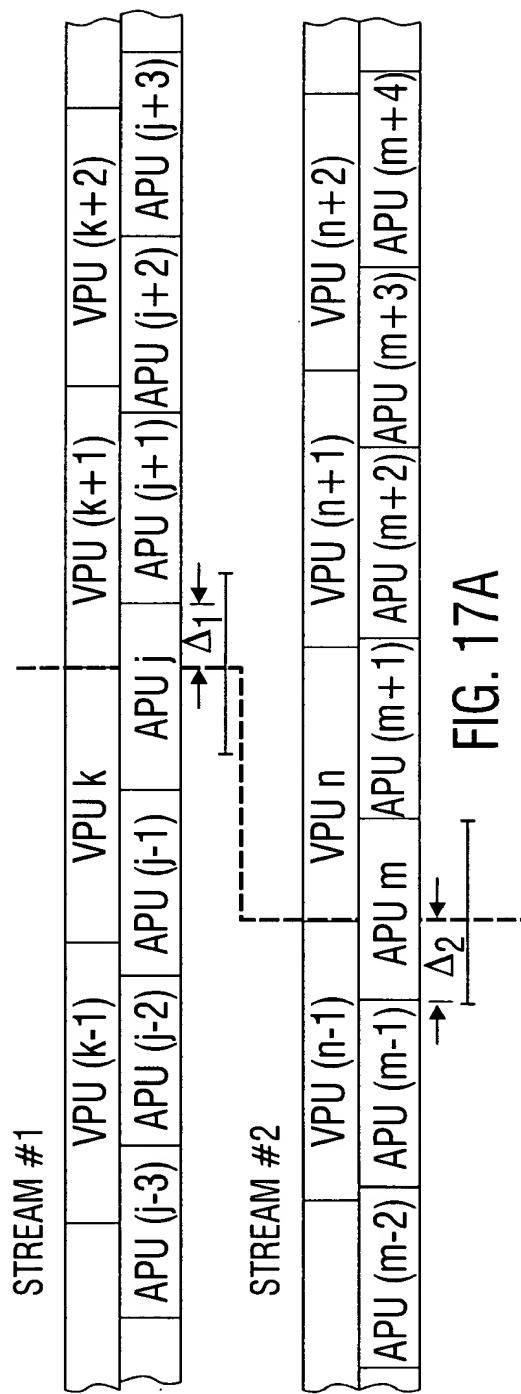


FIG. 15B





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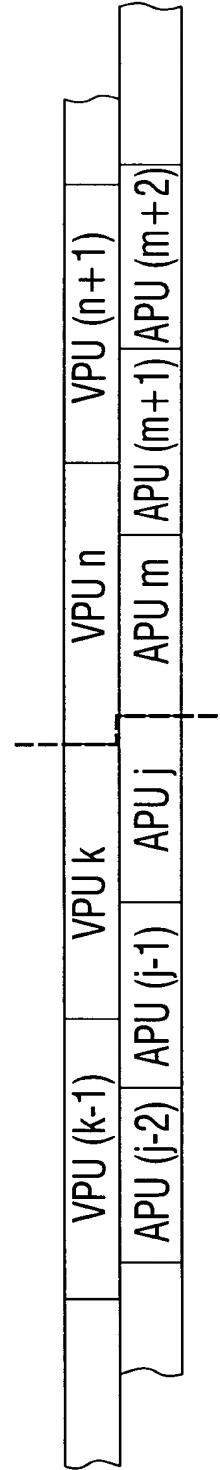
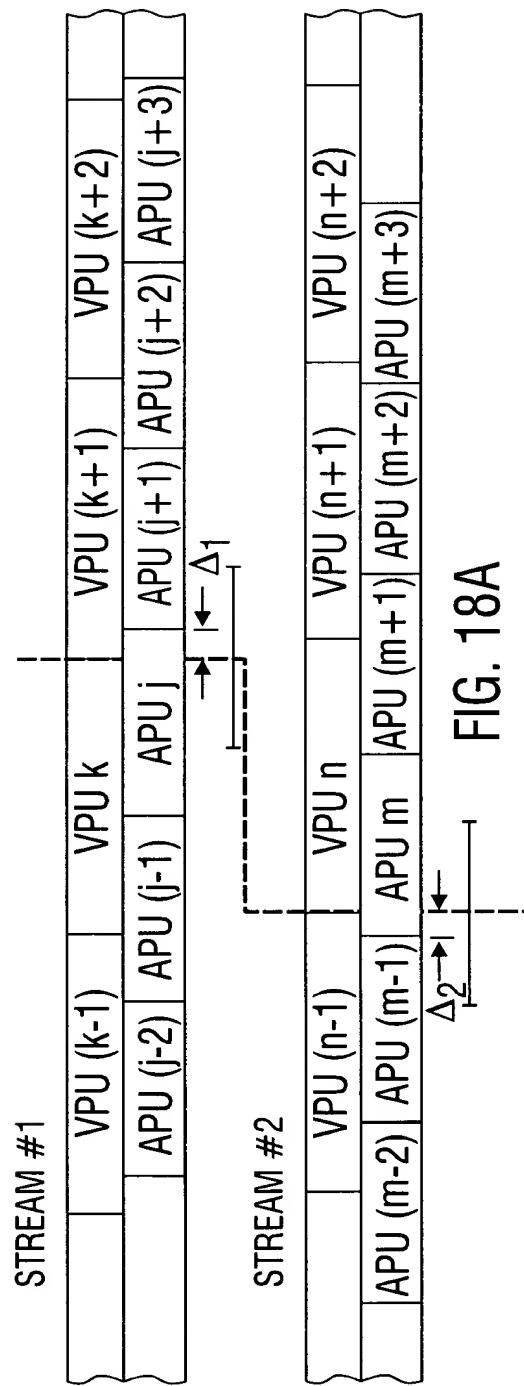


FIG. 18B

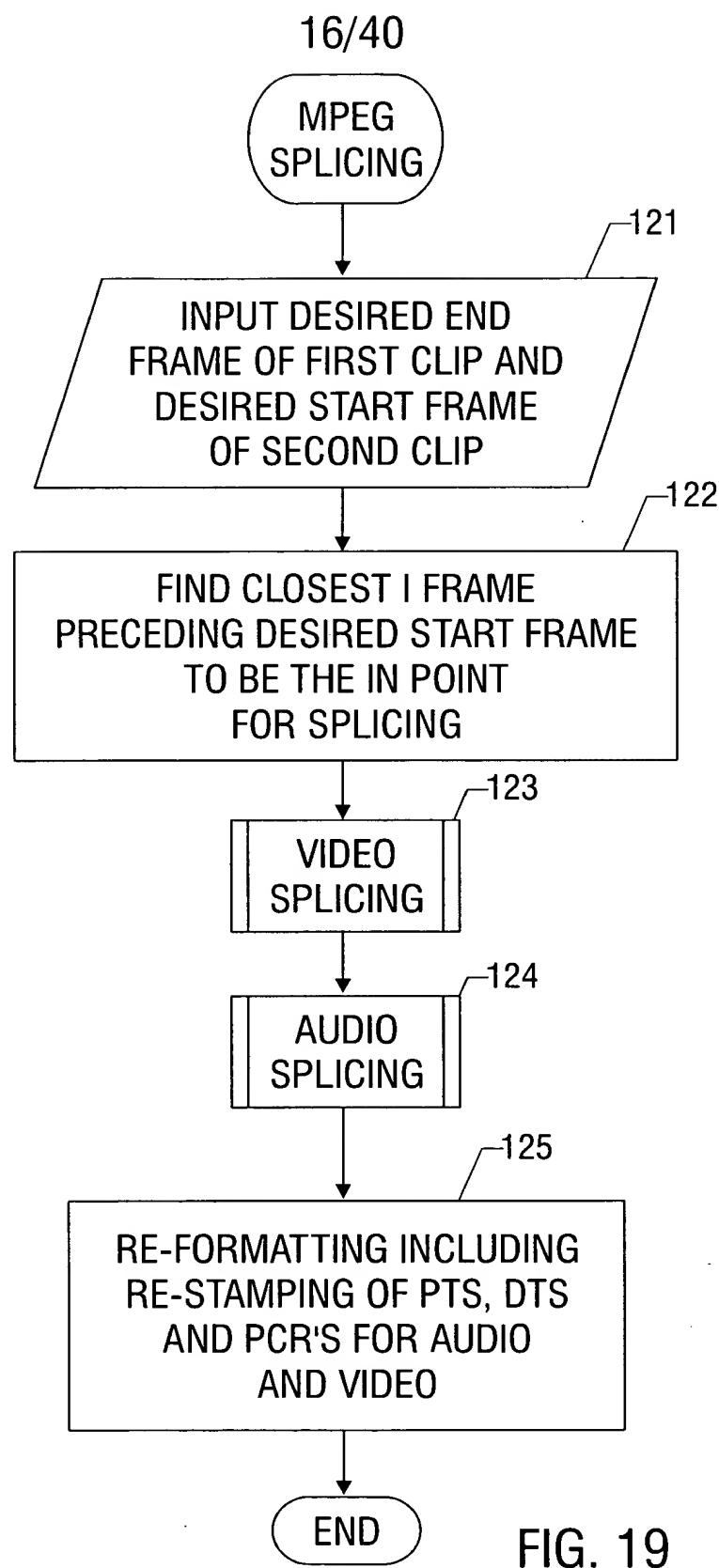


FIG. 19

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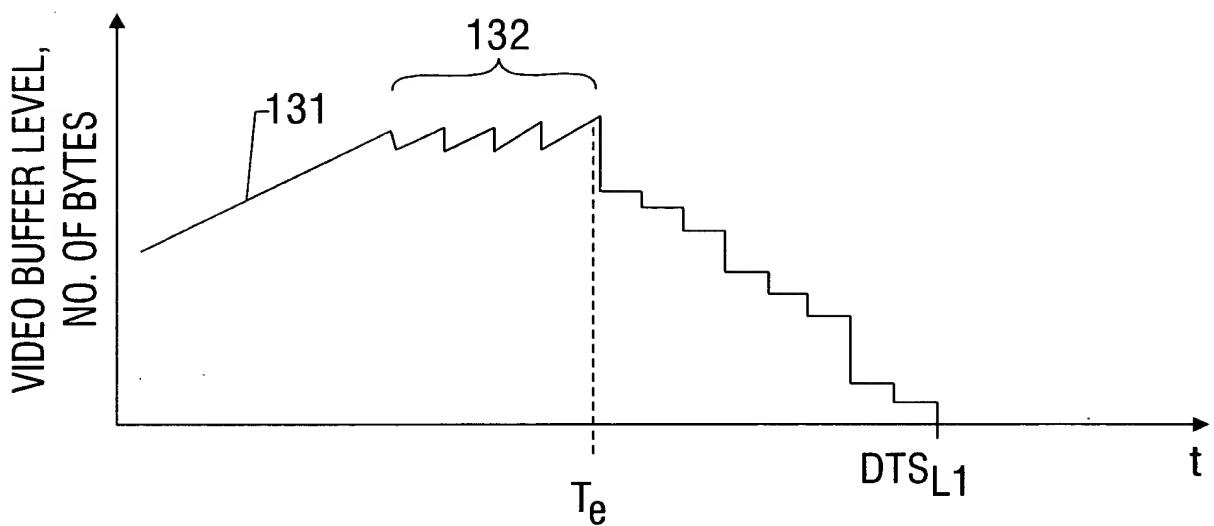


FIG. 20A

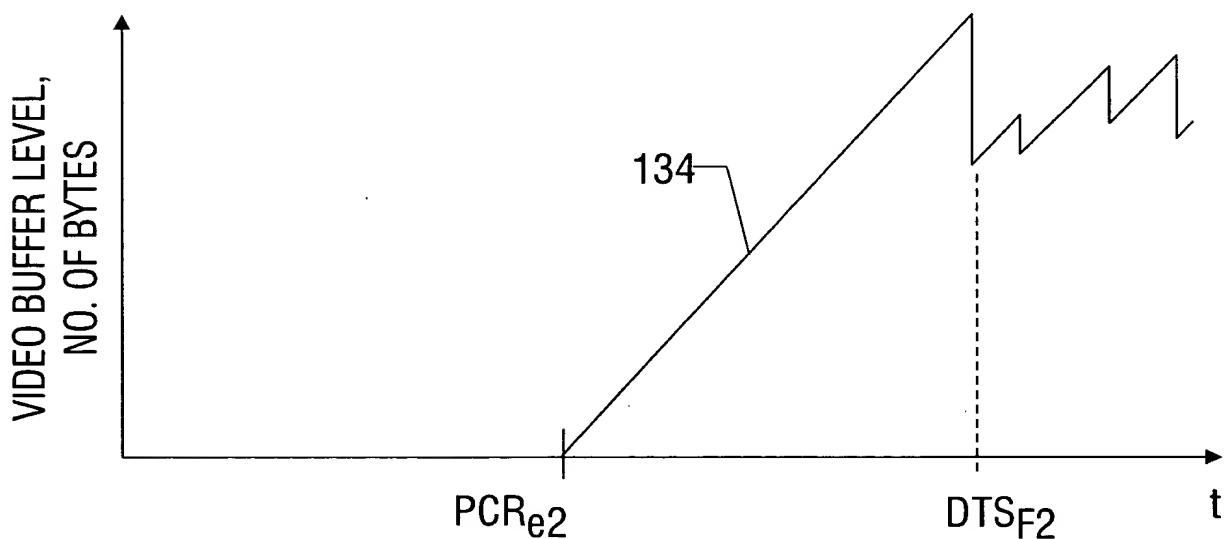


FIG. 20B

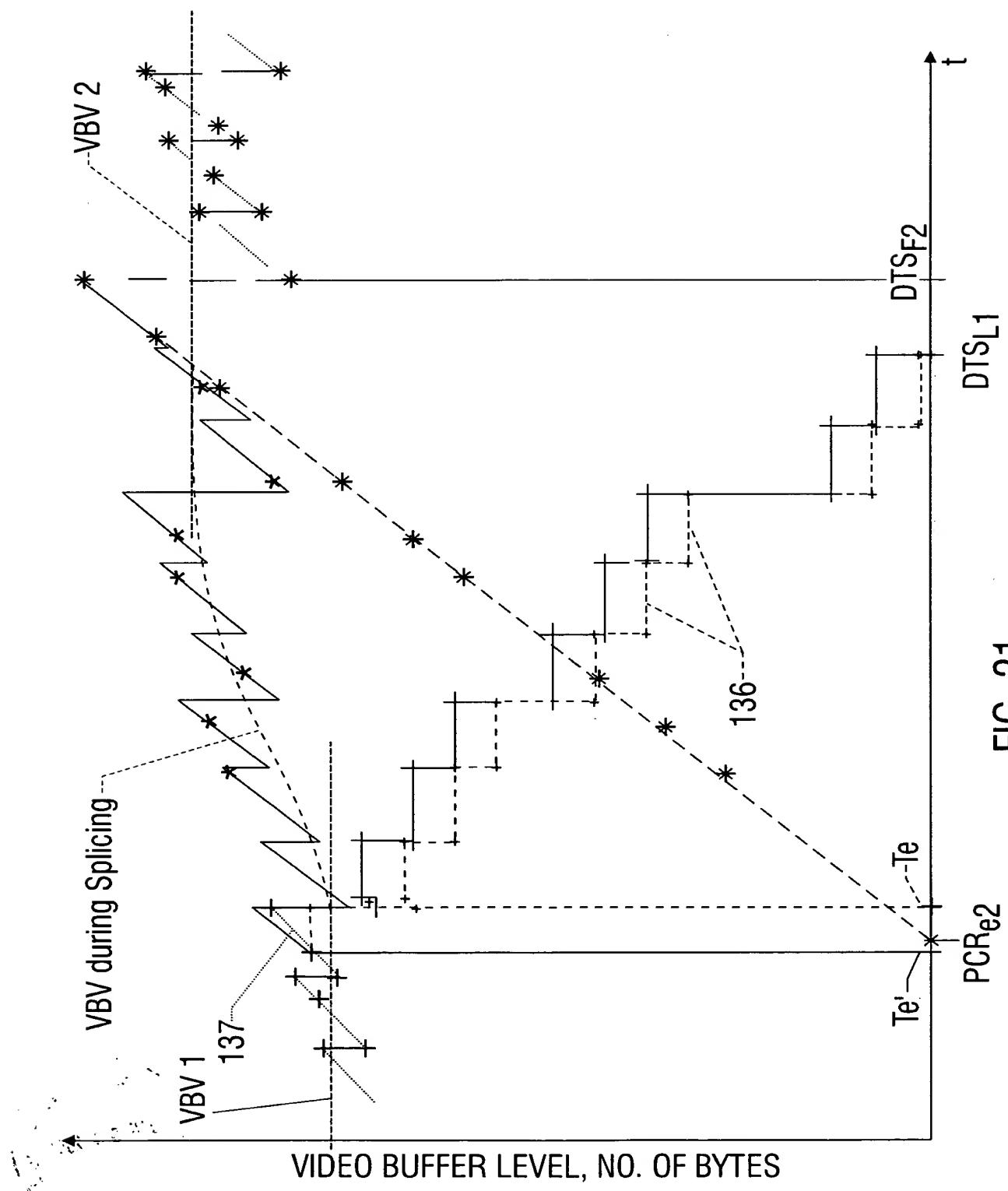


FIG. 21

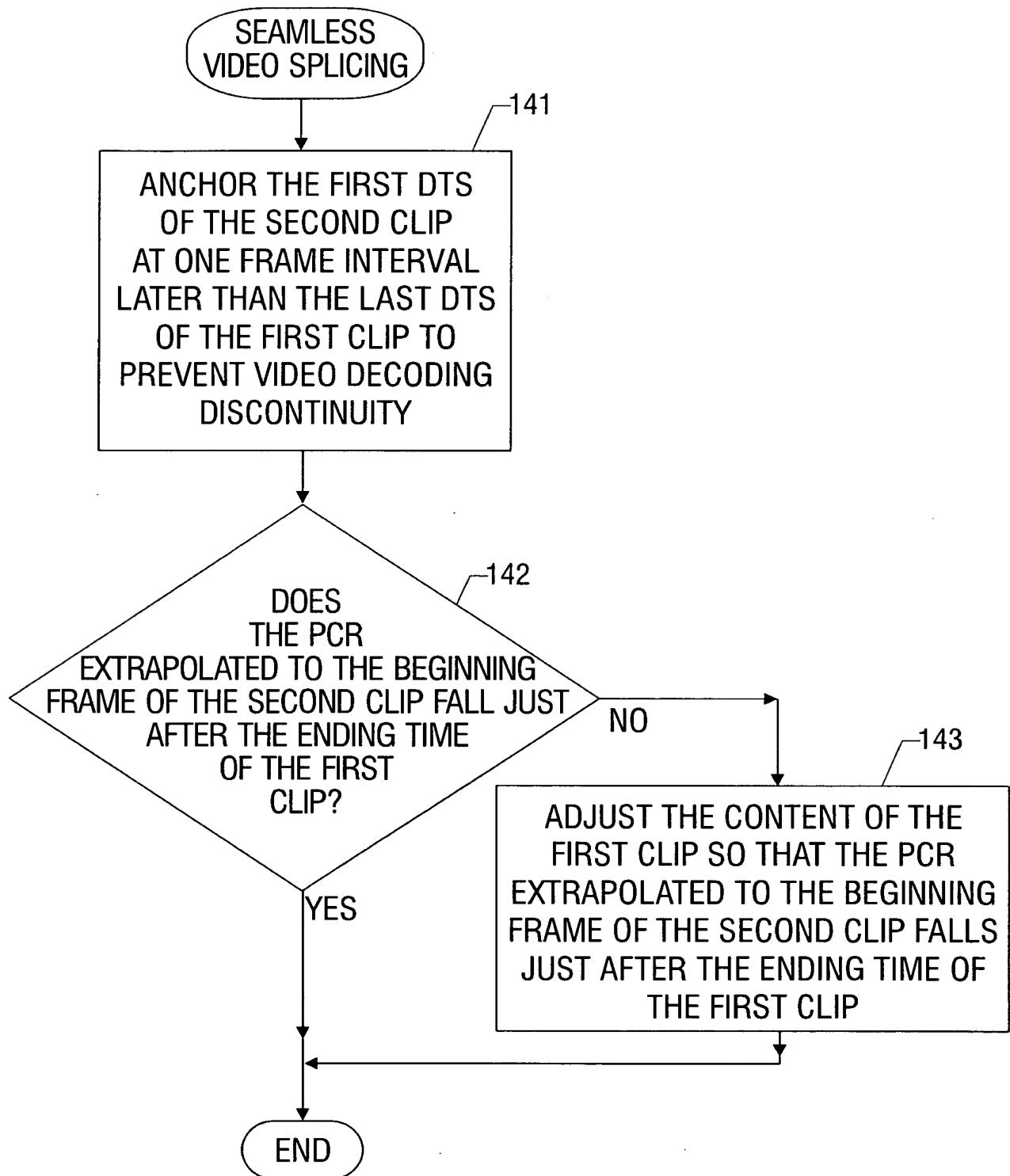


FIG. 22

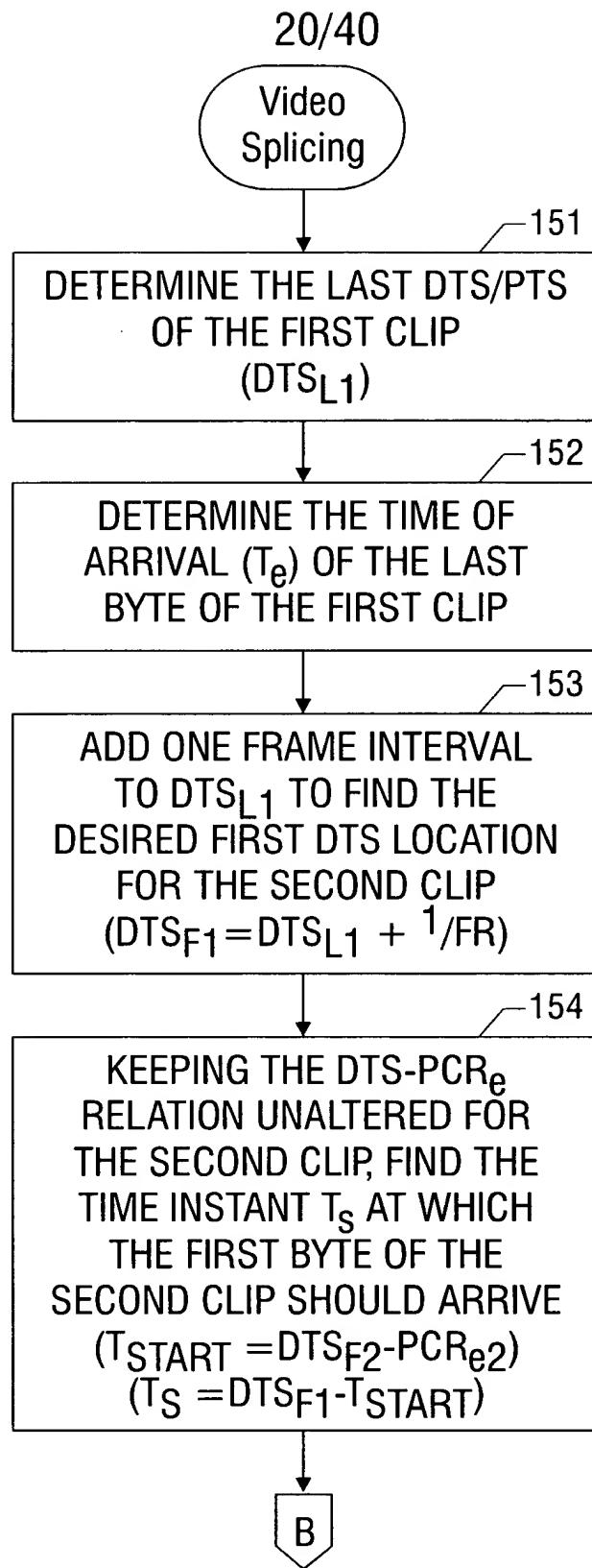


FIG. 23

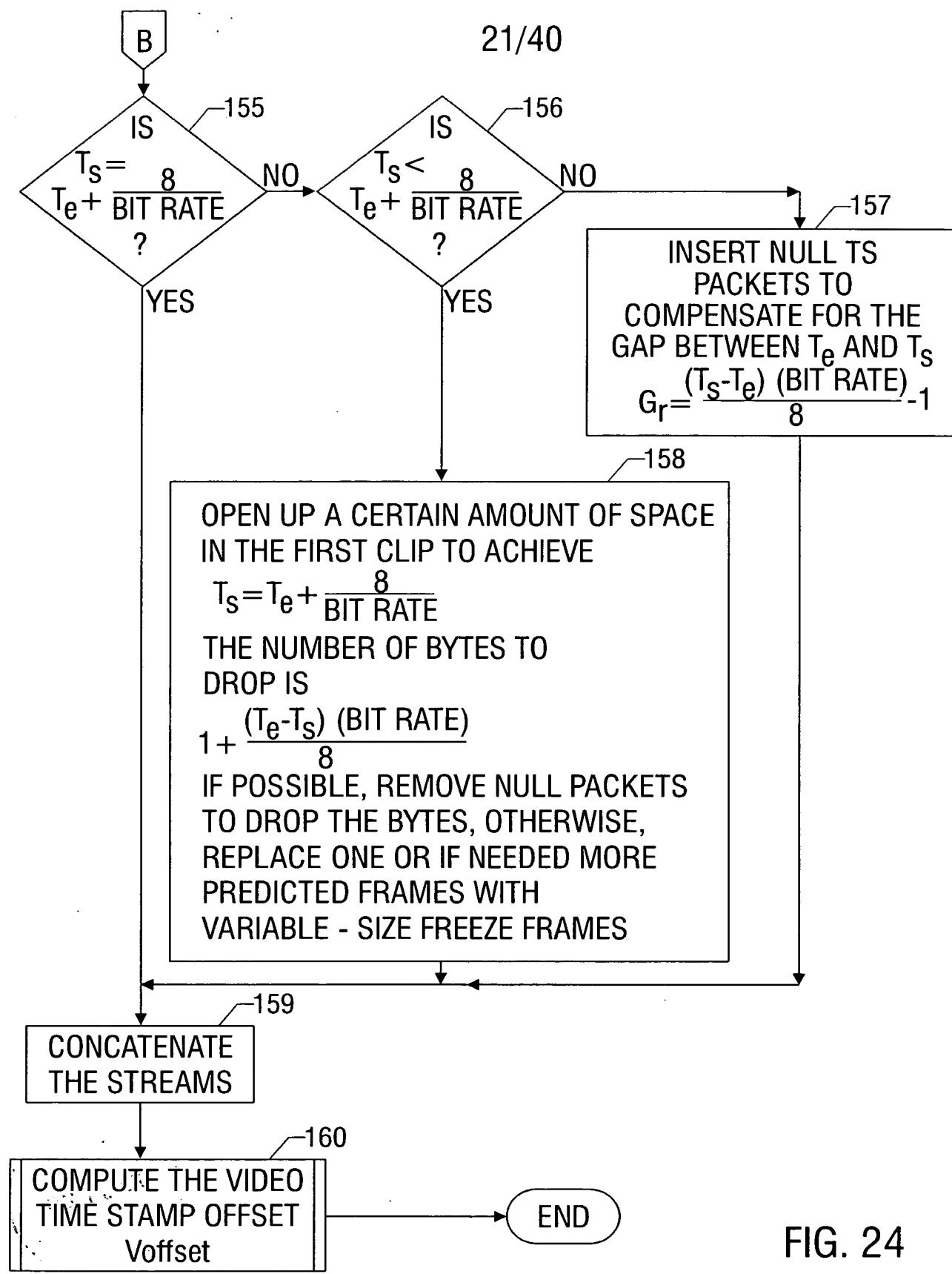


FIG. 24

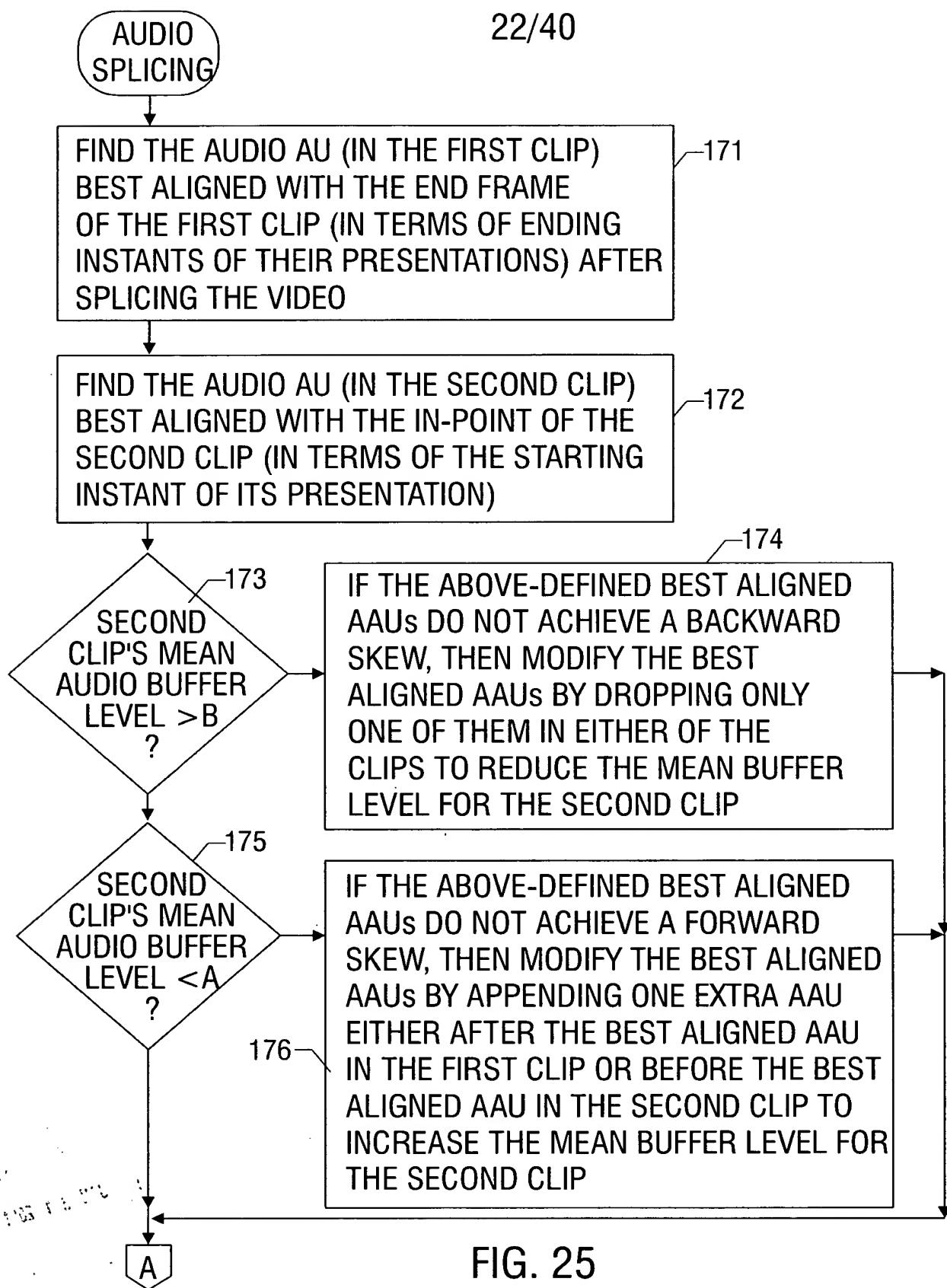


FIG. 25

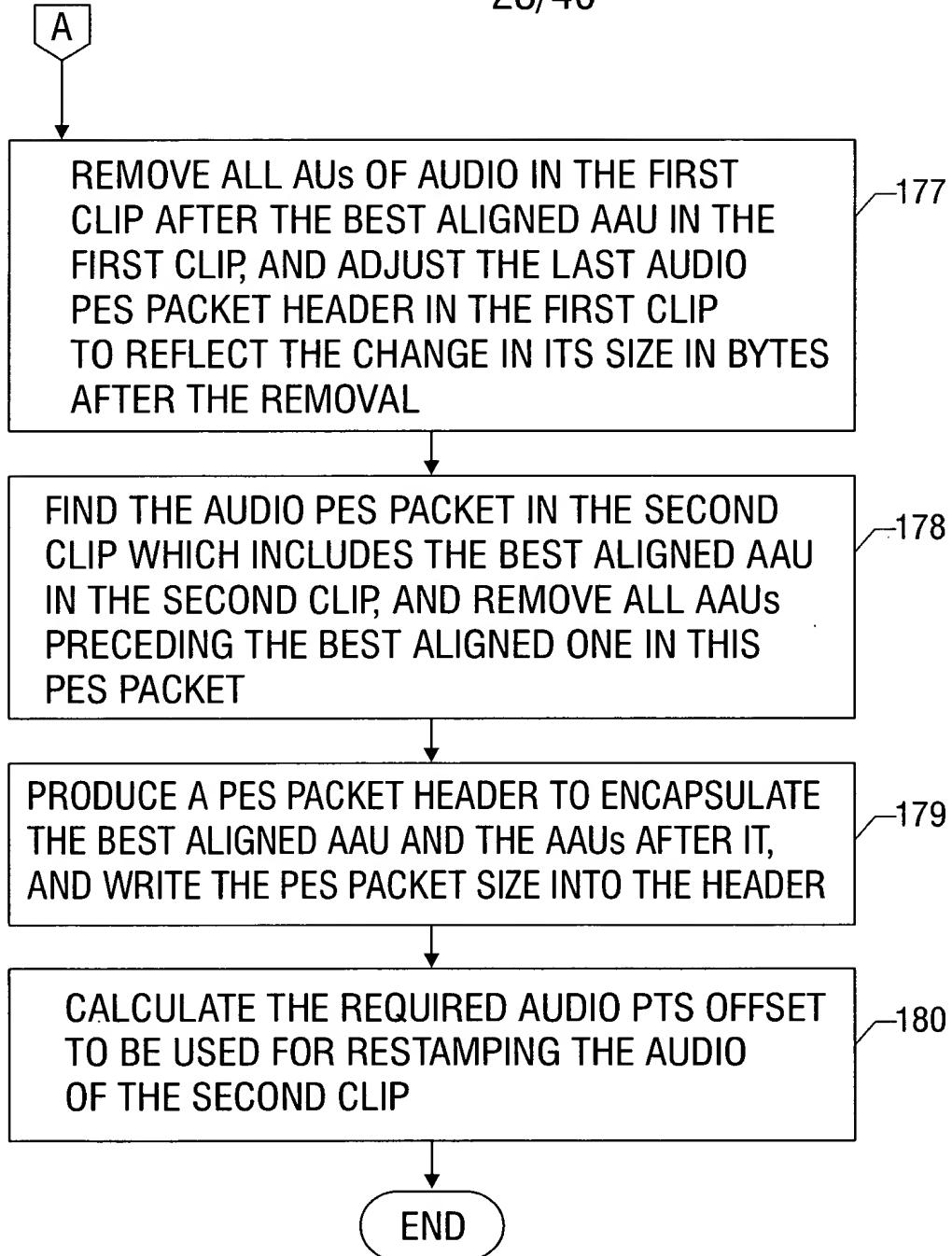


FIG. 26

CASE	SECOND CLIP HAS A HIGH MEAN AUDIO BUFFER LEVEL	SECOND CLIP HAS A LOW MEAN AUDIO BUFFER LEVEL
FIG. 11A	USE FIG. 28	USE FIG. 11B OR 11C
FIG. 12A	USE FIG. 12B	USE FIG. 29
FIG. 13A	USE FIG. 13B	USE FIG. 30
FIG. 14A	USE FIG. 31	USE FIG. 14B
FIG. 15A	USE FIG. 15B	USE FIG. 32
FIG. 16A	USE FIG. 33	USE FIG. 16B
FIG. 17A	USE FIG. 17B OR 17C	USE FIG. 34
FIG. 18A	USE FIG. 35	USE FIG. 18B

FIG. 27

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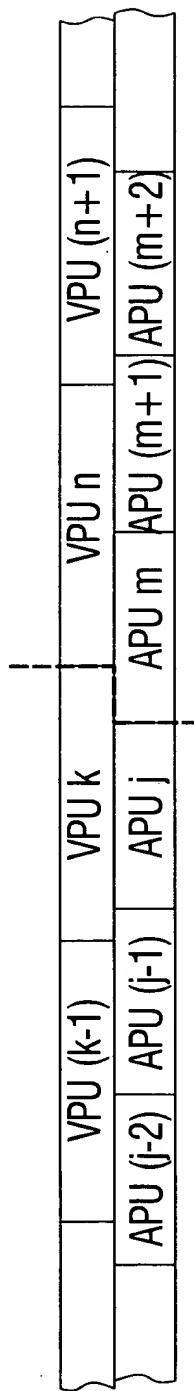


FIG. 28

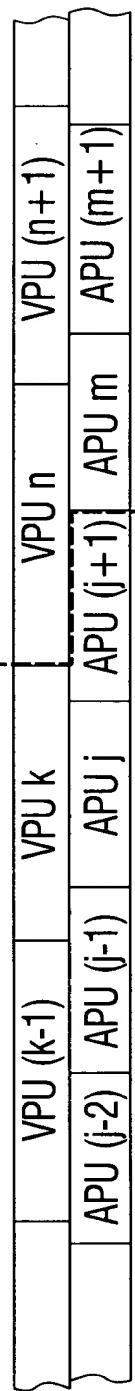


FIG. 29

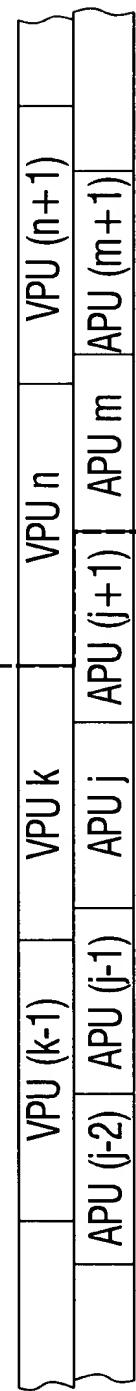


FIG. 30

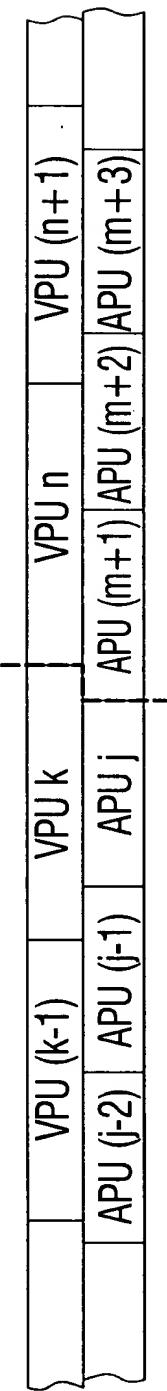


FIG. 31

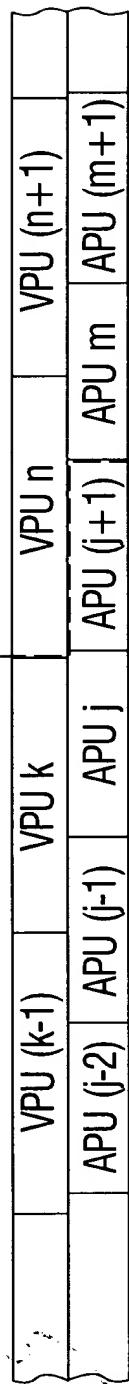


FIG. 32

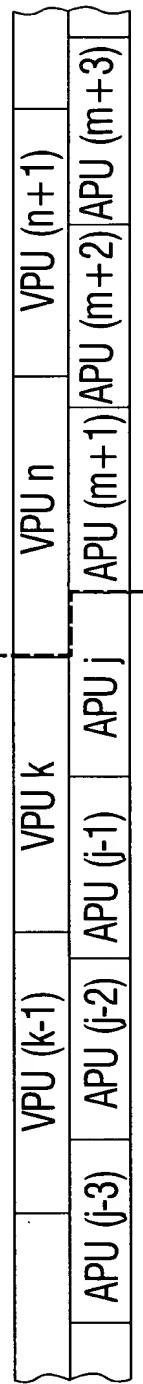


FIG. 33

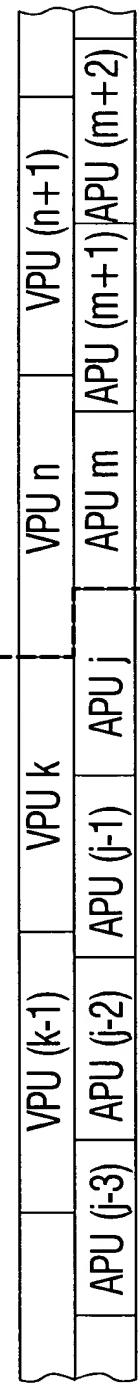


FIG. 34

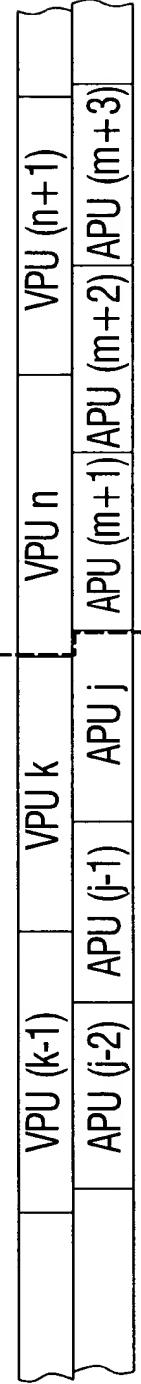


FIG. 35

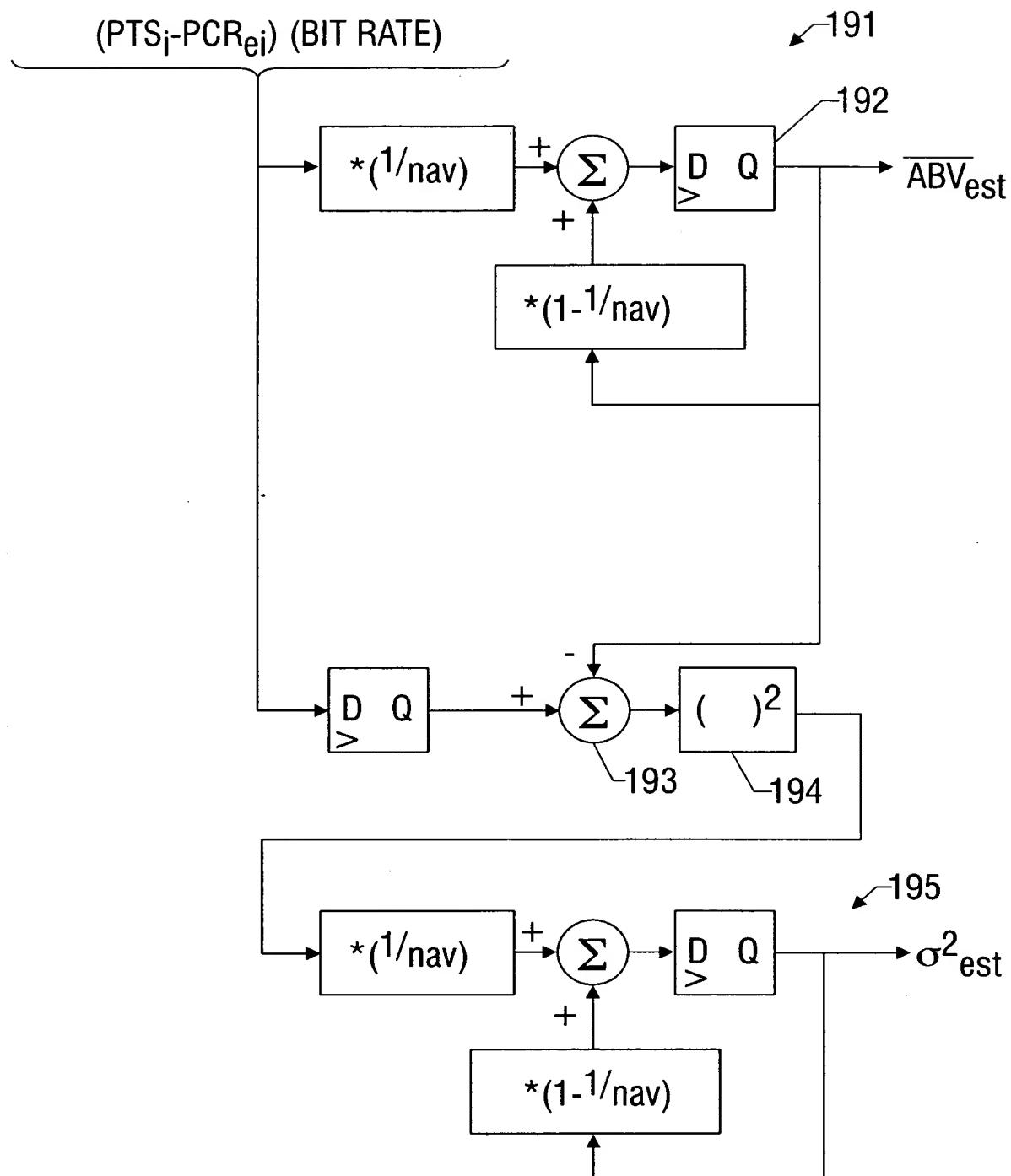


FIG. 36

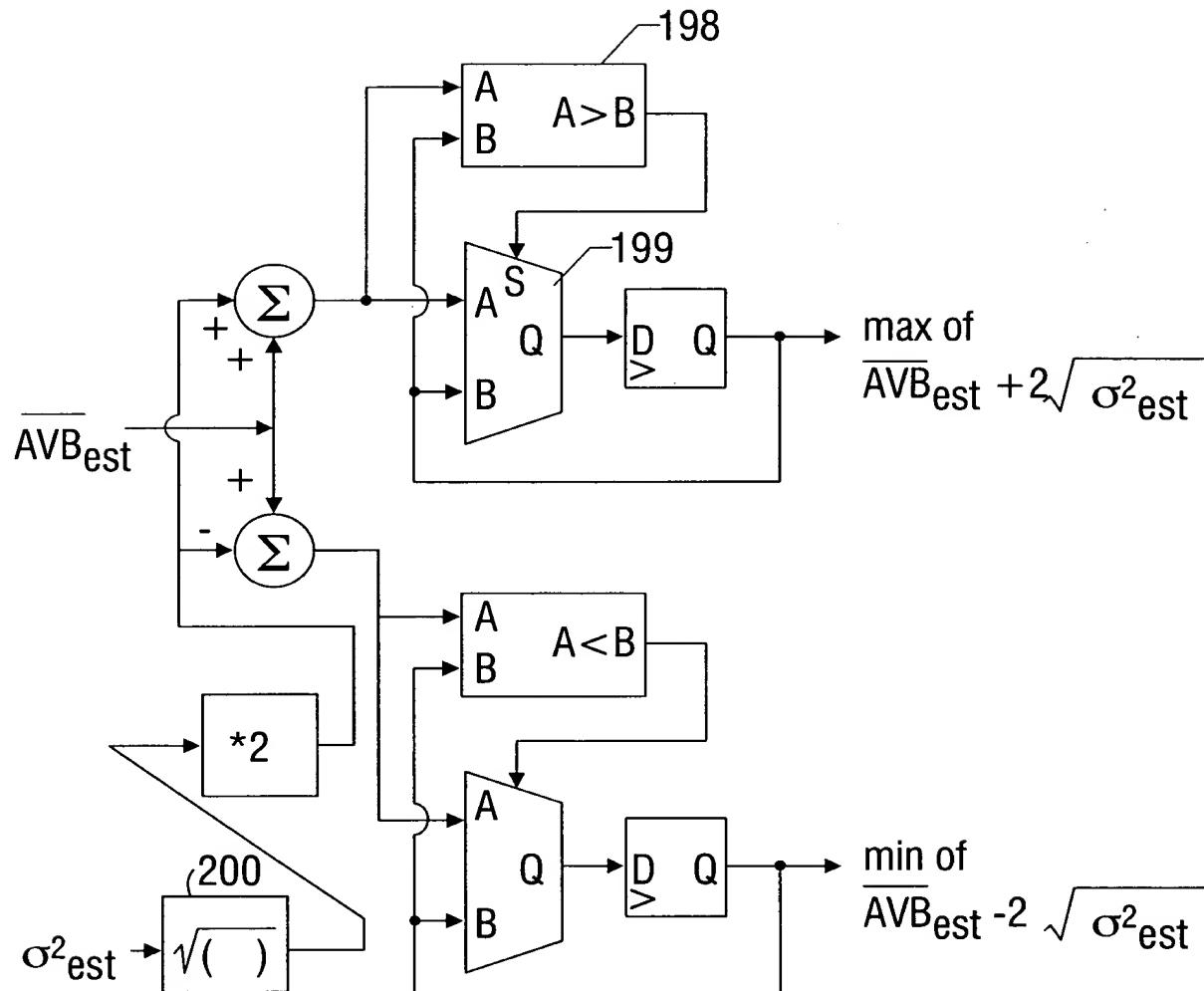


FIG. 37

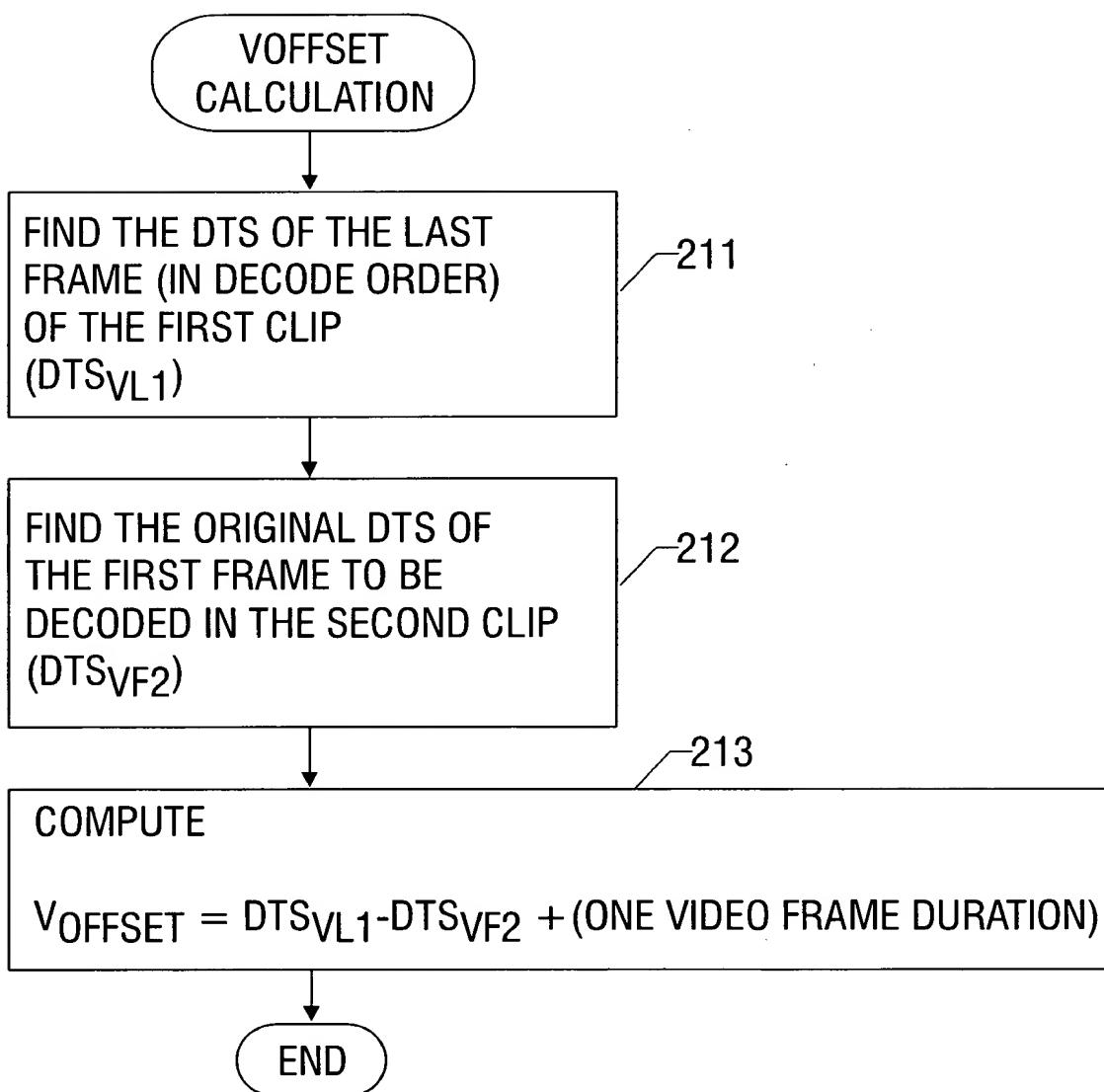


FIG. 38

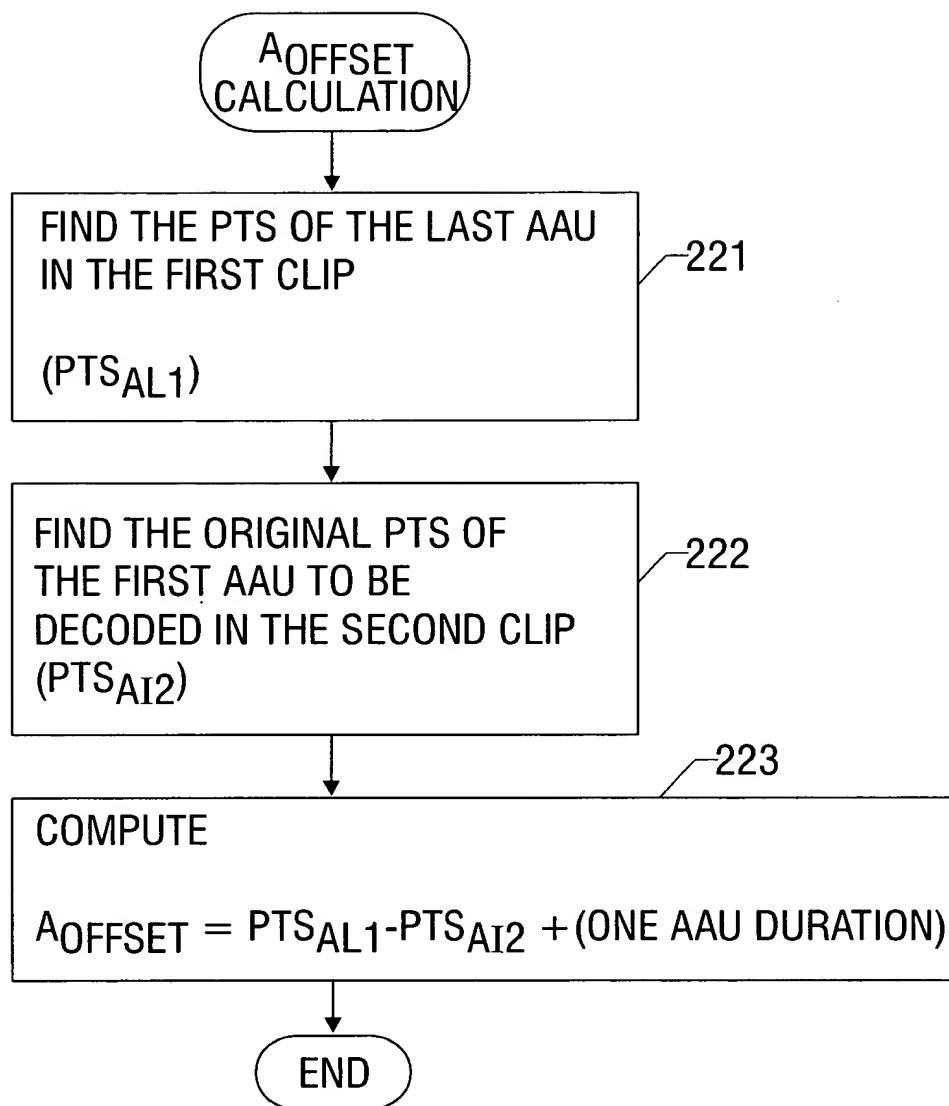


FIG. 39

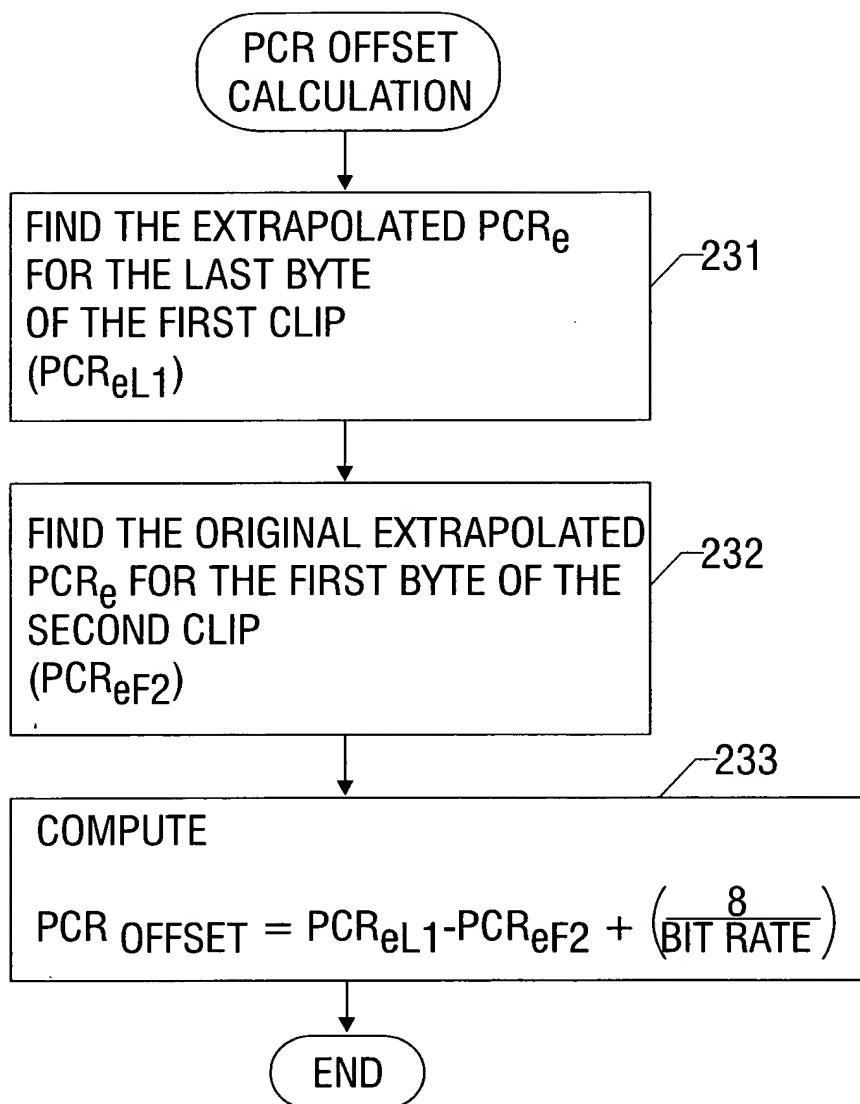


FIG. 40

RESTAMPING

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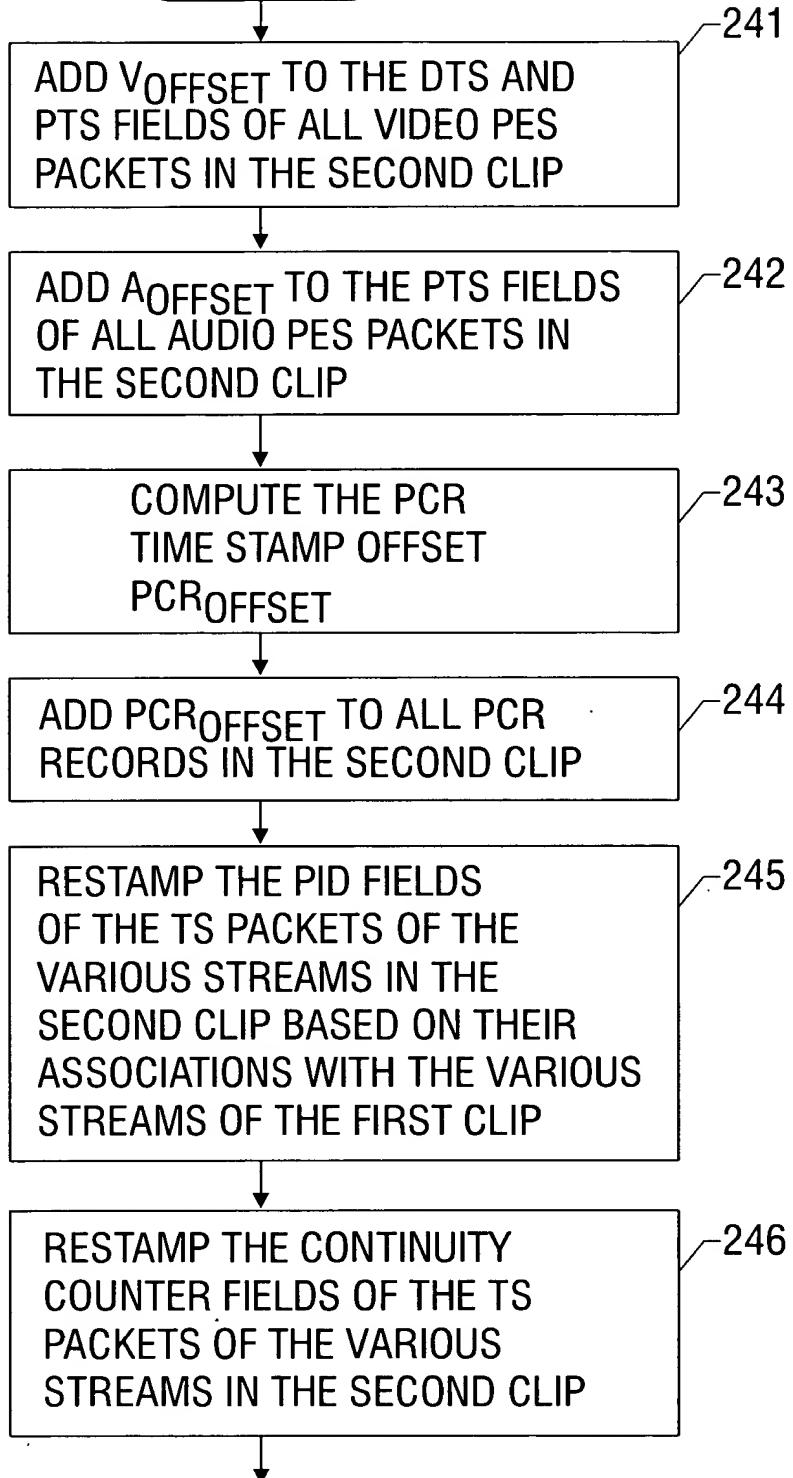


FIG. 41

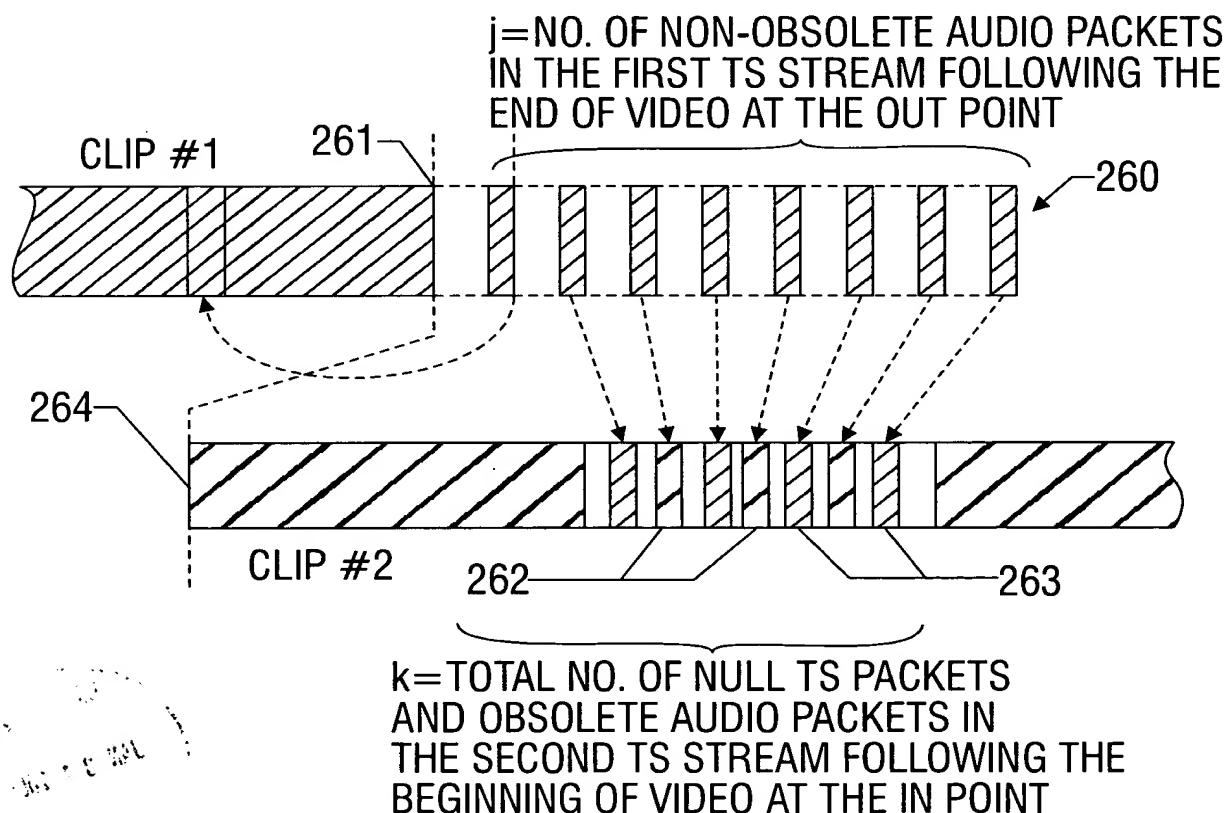
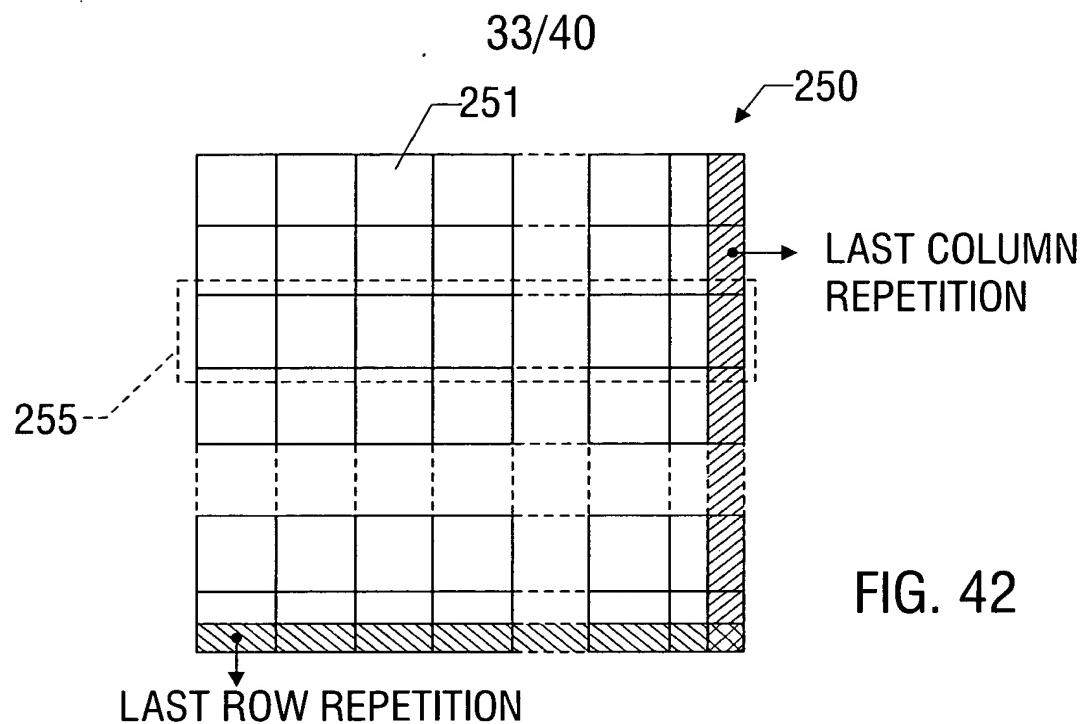


FIG. 43

RE-FORMATTING

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DETERMINE:

$j = \text{NO. OF NON-OBSOLETE AUDIO PACKETS IN THE FIRST TS STREAM FOLLOWING THE END OF VIDEO AT THE OUT POINT.}$

$k = \text{TOTAL NUMBER OF NULL PACKETS AND OBSOLETE AUDIO PACKETS IN THE SECOND TS STREAM FOLLOWING THE BEGINNING OF VIDEO AT THE IN POINT.}$

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REPLACE ANY OF THE k NULL PACKETS OR OBSOLETE AUDIO PACKETS IN THE SECOND TS STREAM WITH CORRESPONDING ONES OF THE j NON-OBSOLETE AUDIO PACKETS IN THE FIRST TS STREAM, BEGINNING WITH THE MOST ADVANCED IN TIME PACKETS

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j > k ?
YES

CHANGE ANY REMAINING OBSOLETE AUDIO PACKETS TO NULL TS PACKETS

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FOR THE REMAINING $(j-k)$ NON-OBSOLETE AUDIO PACKETS FROM THE FIRST STREAM, CREATE $(j-k) * 188$ BYTES OF ADDITIONAL SPACE FOR THEM IN THE SPLICED TS STREAM PRIOR TO THE VIDEO FOR THE OUT POINT. (THIS ADDITIONAL SPACE MUST BE GENERATED SO AS TO MAINTAIN THE $T_S = T_e + 8 / (\text{BIT RATE})$ CONDITION OF FIG. 24 FOR SEAMLESS VIDEO SPLICING.)

END

FIG. 44

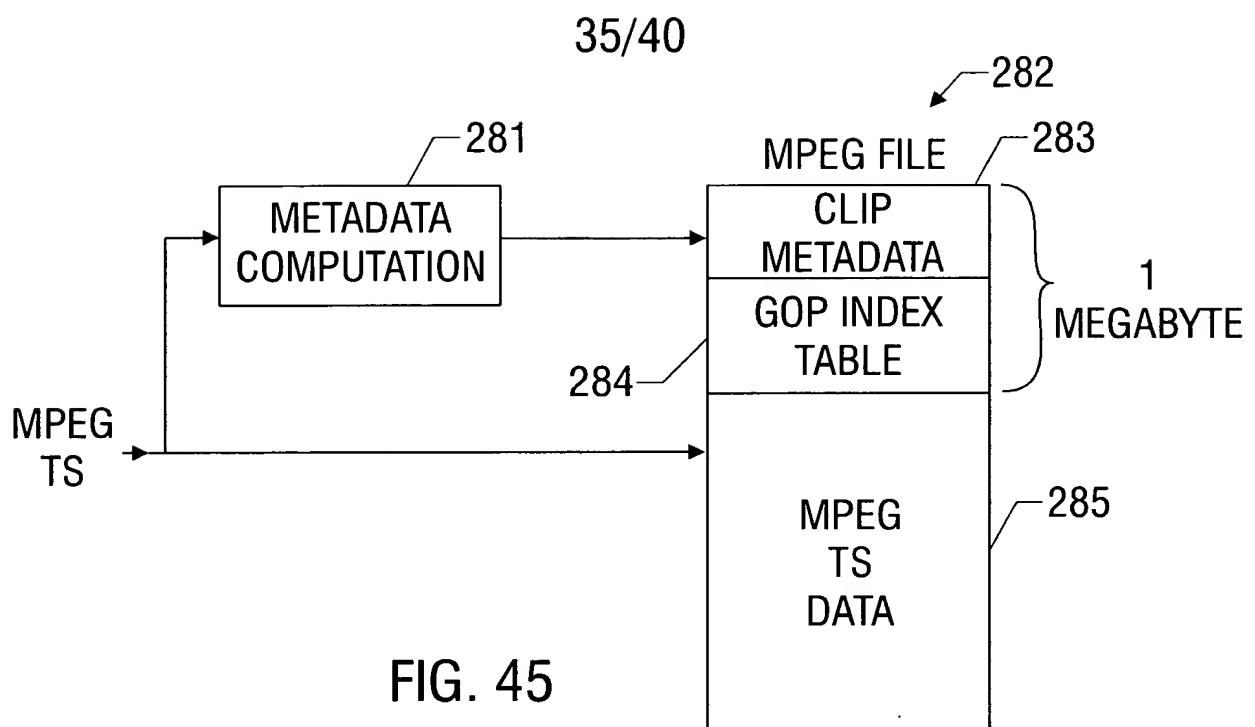


FIG. 45

	FRAME NO.	POINTER TO MPEG TS DATA	FLAGS	DTS, PCR _e , AND OTHER GOP ATTRIBUTES
GOP 0				
GOP 1				
GOP 2				
GOP 3				
GOP 4				
GOP 5				
•				
•				
•				
GOP n				

FIG. 46

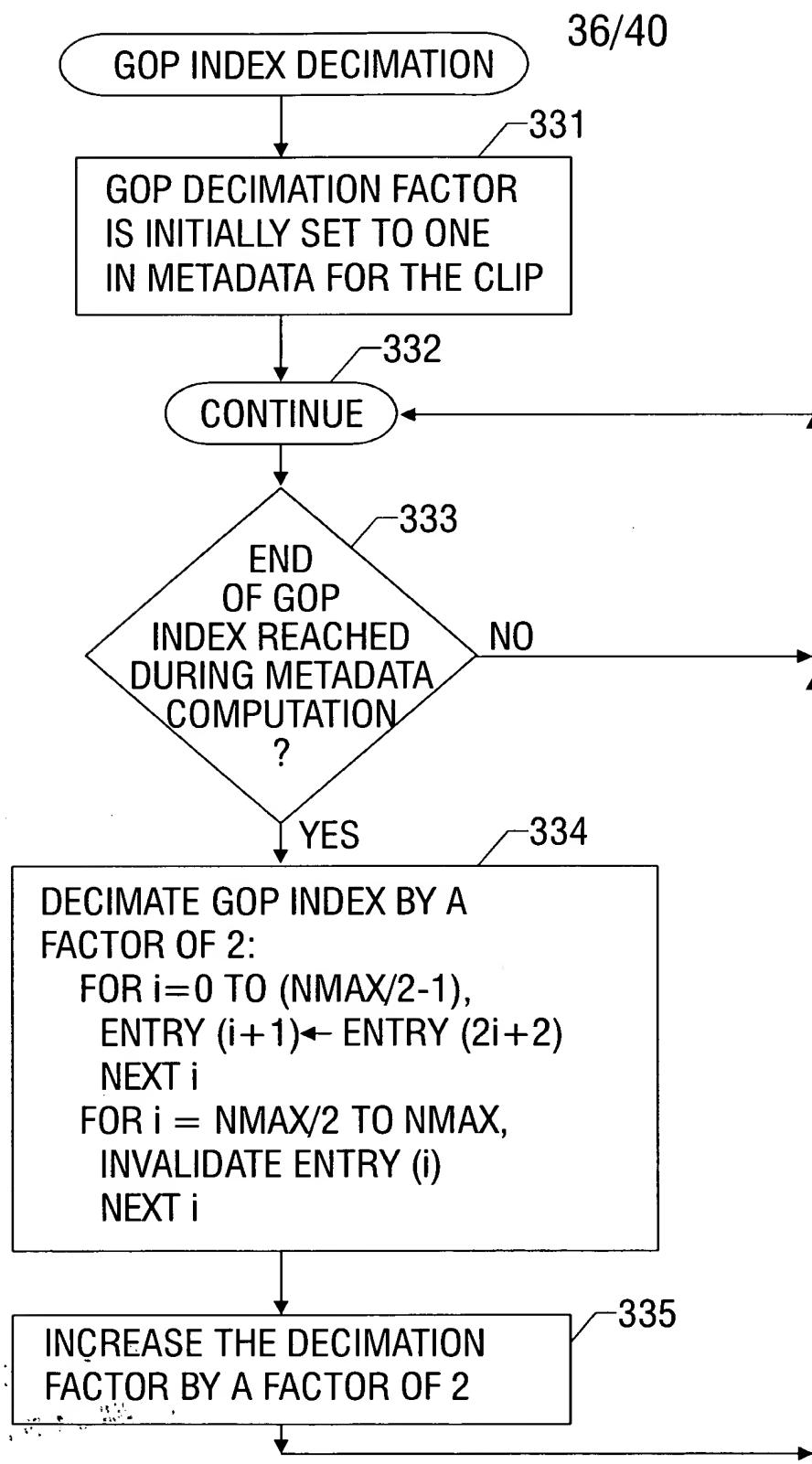


FIG. 47

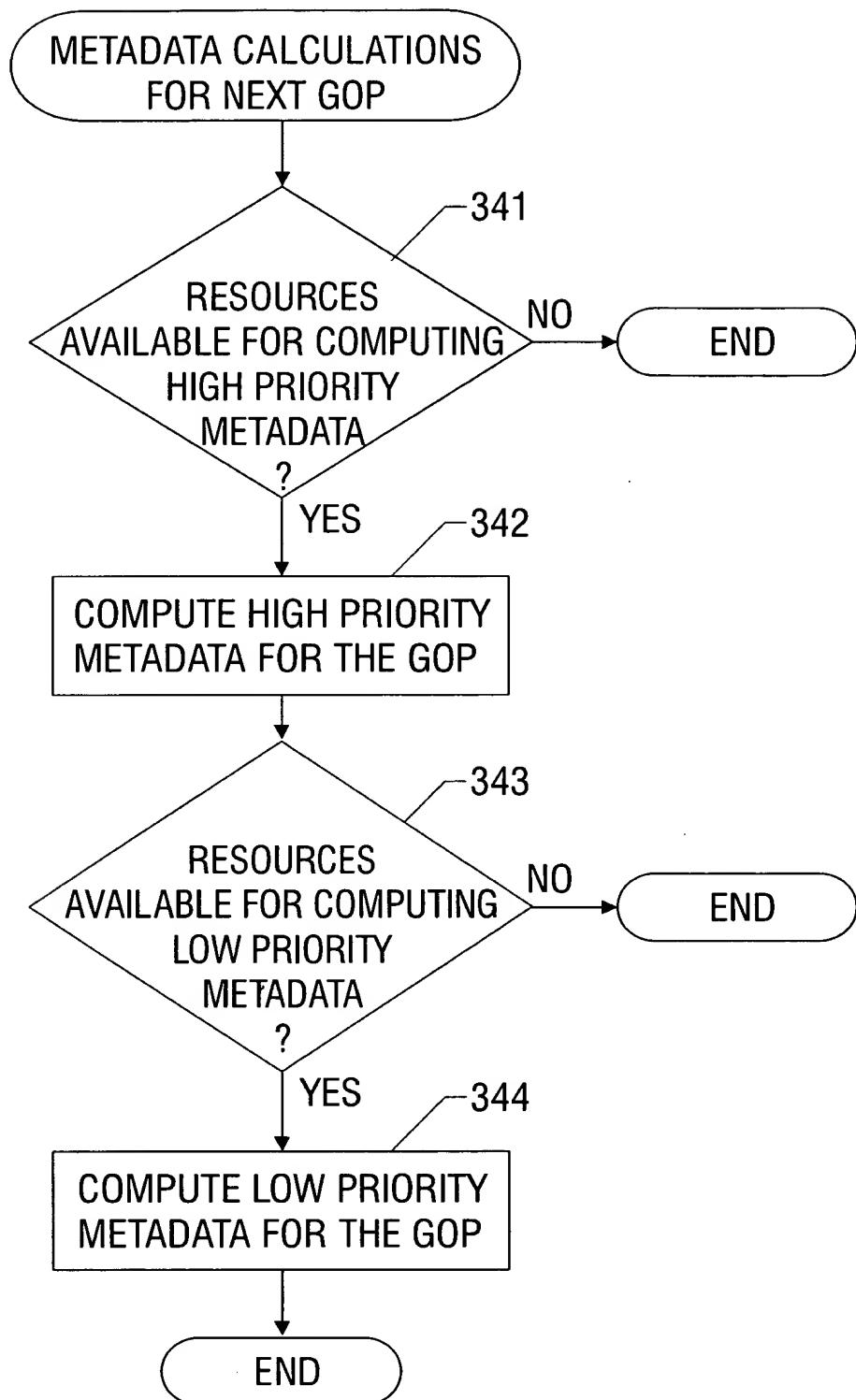
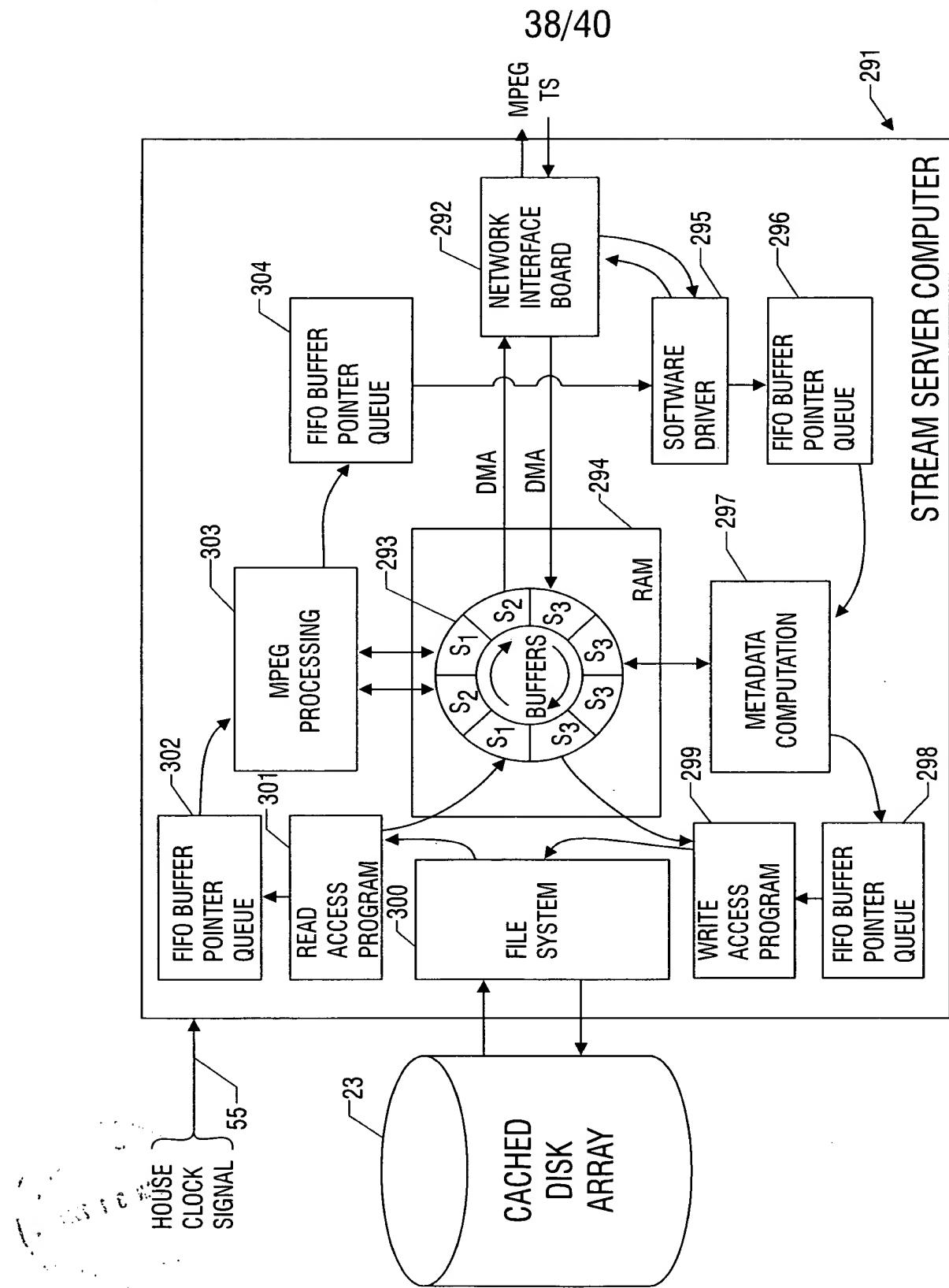


FIG. 48

FIG. 49



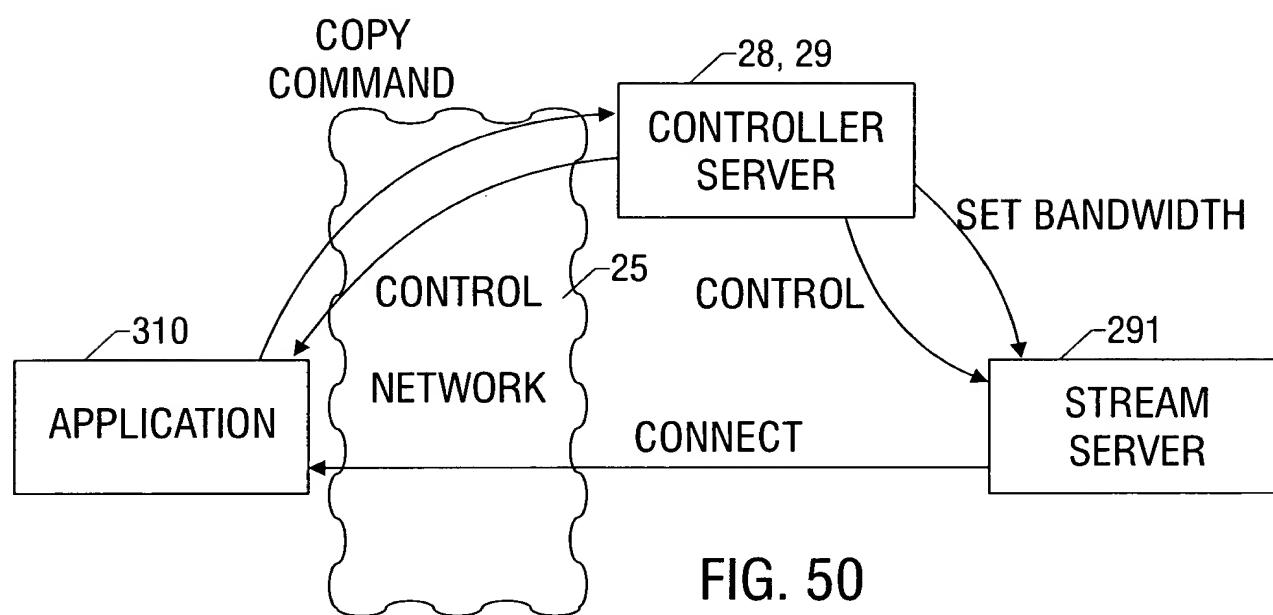


FIG. 50

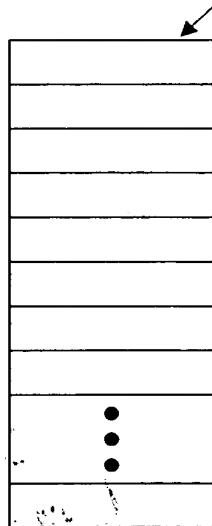
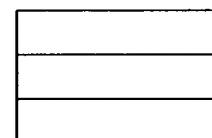
CONTROLLER SERVER
PLAY LISTSTREAM SERVER
PLAY LIST

FIG. 51

PROCESSING OF TEMPORARILY CORRUPTED TRANSPORT STREAM

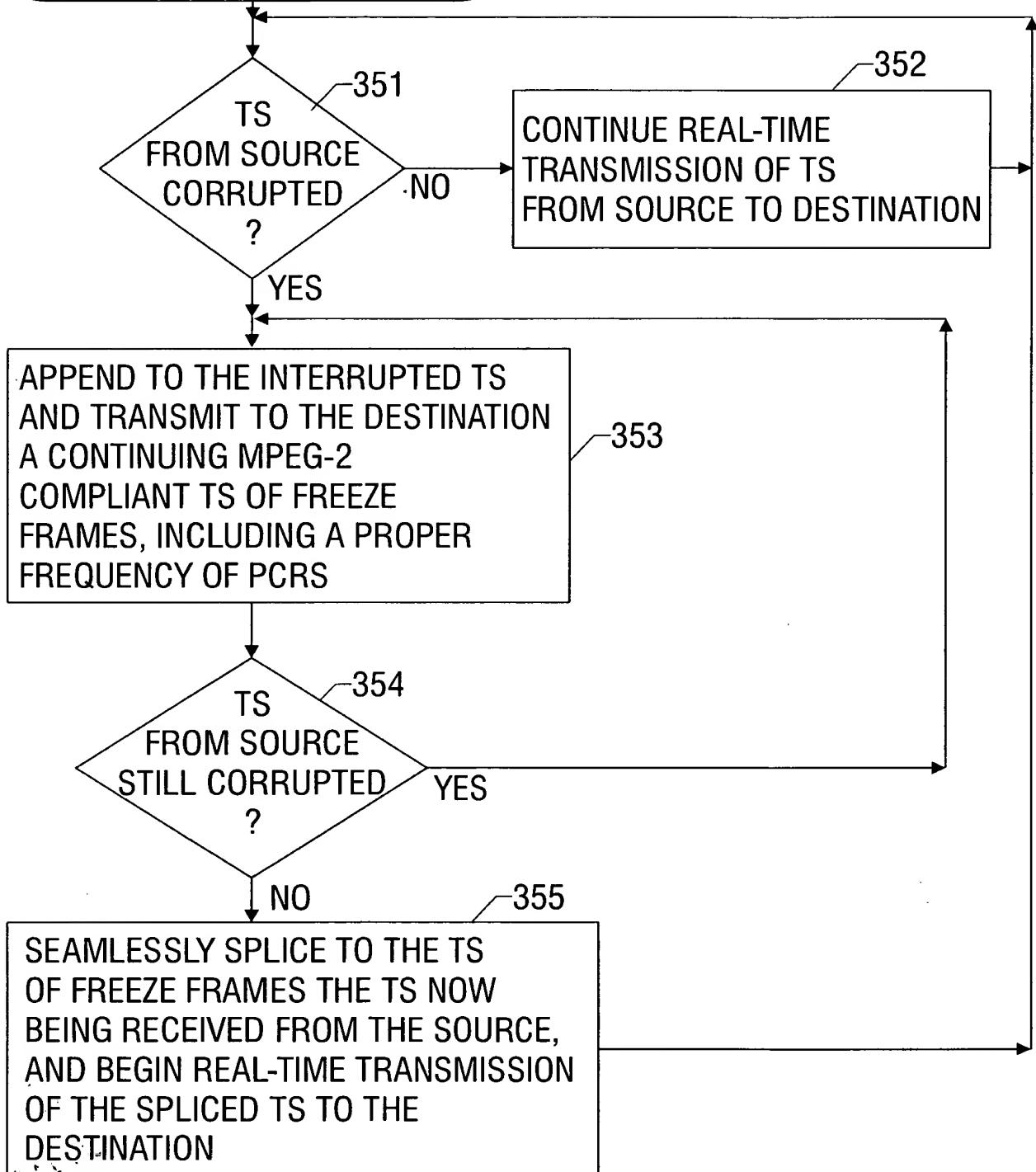


FIG. 52